### Water Pollution Abatement Plan Modification

Additions and Renovations to New Braunfels High School for New Braunfels I.S.D. Phase 2 2551 TX-337 Loop, New Braunfels, Texas 78130





Applicant: Richard Underwood, P.E.



10101 Reunion Place, Suite 400 San Antonio, TX 78216 (210) 321-3415 KHA No. 066017050

## Texas Commission on Environmental Quality Water Pollution Abatement Plan General Construction Notes

#### Edwards Aquifer Protection Program Construction Notes - Legal Disclaimer

The following/listed "construction notes" are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive Director (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction.

Further actions may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations providing for the protection of water quality. Additionally, nothing contained in the following/listed "construction notes" restricts the powers of the ED, the commission or any other governmental entity to prevent, correct, or curtail activities that result or may result in pollution of the Edwards Aquifer or hydrologically connected surface waters. The holder of any Edwards Aquifer Protection Plan containing "construction notes" is still responsible for compliance with Title 30, TAC, Chapters 213 or any other applicable TCEQ regulation, as well as all conditions of an Edwards Aquifer Protection Plan through all phases of plan implementation. Failure to comply with any condition of the ED's approval, whether or not in contradiction of any "construction notes," is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. The following/listed "construction notes" in no way represent an approved exception by the ED to any part of Title 30 TAC, Chapters 213 and 217, or any other TCEQ applicable regulation

- 1. A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any regulated activities. This notice must include:
  - the name of the approved project;
  - the activity start date; and
  - the contact information of the prime contractor.
- All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan (WPAP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.
- 3. If any sensitive feature(s) (caves, solution cavity, sink hole, etc.) is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. Construction activities may not be resumed until the TCEQ has reviewed and approved the appropriate protective measures in order to protect any sensitive feature and the Edwards Aquifer from potentially adverse impacts to water quality.
- 4. No temporary or permanent hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature.
- 5. Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the approved plans and manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been permanently stabilized.
- 6. Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features, etc.
- 7. Sediment must be removed from the sediment traps or sedimentation basins not later than

when it occupies 50% of the basin's design capacity.

- 8. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.
- 9. All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards Aquifer Recharge Zone, the owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.
- 10. If portions of the site will have a temporary or permanent cease in construction activity lasting longer than 14 days, soil stabilization in those areas shall be initiated as soon as possible prior to the 14<sup>th</sup> day of inactivity. If activity will resume prior to the 21<sup>st</sup> day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14<sup>th</sup> day, stabilization measures shall be initiated as soon as possible.
- 11. The following records shall be maintained and made available to the TCEQ upon request:
  - the dates when major grading activities occur;
  - the dates when construction activities temporarily or permanently cease on a portion of the site: and
  - the dates when stabilization measures are initiated.
- 12. The holder of any approved Edward Aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:
  - A. any physical or operational modification of any water pollution abatement structure(s), including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;
  - B. any change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;
  - C. any development of land previously identified as undeveloped in the original water pollution abatement plan.

Austin Regional Office 12100 Park 35 Circle, Building A Austin, Texas 78753-1808 Phone (512) 339-2929 Fax (512) 339-3795

San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone (210) 490-3096 Fax (210) 545-4329

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

## Modification of a Previously Approved Plan Checklist

- Edwards Aquifer Application Cover Page (TCEQ-20705)
- General Information Form (TCEQ-0587)

Attachment A - Road Map

Attachment B - USGS / Edwards Recharge Zone Map

Attachment C - Project Description

#### Geologic Assessment Form (TCEQ-0585)

Attachment A - Geologic Assessment Table (TCEQ-0585-Table)

Attachment B - Stratigraphic Column

Attachment C - Site Geology

Attachment D - Site Geologic Map(s)

#### Modification of a Previously Approved Plan (TCEQ-0590)

Attachment A - Original Approval Letter and Approved Modification Letters

Attachment B - Narrative of Proposed Modification

Attachment C - Current Site Plan of the Approved Project

#### Application Form (include any applicable to the proposed modification):

Aboveground Storage Tank Facility Plan (TCEQ-0575)

Organized Sewage Collection System Application (TCEQ-0582)

Underground Storage Tank Facility Plan (TCEQ-0583)

Water Pollution Abatement Plan Application (TCEQ-0584)

Lift Station / Force Main System Application (TCEQ-0624)

#### Temporary Stormwater Section (TCEQ-0602)

Attachment A - Spill Response Actions

Attachment B - Potential Sources of Contamination

Attachment C - Sequence of Major Activities

Attachment D - Temporary Best Management Practices and Measures

Attachment E - Request to Temporarily Seal a Feature (if requested)

Attachment F - Structural Practices

Attachment G - Drainage Area Map

Attachment H - Temporary Sediment Pond(s) Plans and Calculations

Attachment I - Inspection and Maintenance for BMPs

Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices

#### X Permanent Stormwater Section (TCEQ-0600), if necessary

Attachment A - 20% or Less Impervious Cover Declaration (if requested for multi-family, school, or small business site)

Attachment B - BMPs for Upgradient Stormwater

- Attachment C BMPs for On-site Stormwater
- Attachment D BMPs for Surface Streams
- Attachment E Request to Seal Features, if sealing a feature
- Attachment F Construction Plans
- Attachment G Inspection, Maintenance, Repair and Retrofit Plan
- Attachment H Pilot-Scale Field Testing Plan (if requested)
- Attachment I Measures for Minimizing Surface Stream Contamination
- Agent Authorization Form (TCEQ-0599), if application submitted by agent
- X Application Fee Form (TCEQ-0574)
- Check Payable to the "Texas Commission on Environmental Quality"
- **X** Core Data Form (TCEQ-10400)

#### **Texas Commission on Environmental Quality**

#### **Edwards Aquifer Application Cover Page**

#### **Our Review of Your Application**

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with 30 TAC 213.

#### **Administrative Review**

- Edwards Aquifer applications must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.
  - To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: <a href="http://www.tceq.texas.gov/field/eapp">http://www.tceq.texas.gov/field/eapp</a>.
- 2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
- 3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
- 4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.
  - An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.
- 5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
- 6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

#### **Technical Review**

- 1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.
- 2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

- clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.
- 3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.
- 4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

#### **Mid-Review Modifications**

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

1. Regulated Entity Name: Additions & Renovations to New Braunfels Highschool for New Braunfels I.S.D Phase 2			2. Regulated Entity No.: RN102402526					
3. Customer Name: New Braunfels Highschoo		ol	4. Customer No.: CN600397814					
5. Project Type: (Please circle/check one)	New	Modif	Modification Extension		nsion	Exception		
6. Plan Type: (Please circle/check one)	WPAP CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential (	Non-residential		8. Sit		e (acres):	56	
9. Application Fee:	\$8,000	10. Permanent I		BMP(s):		2		
11. SCS (Linear Ft.):	N/A	12. AST/UST (No		o. Tanks):		N/A		
13. County:	Comal	14. Watershed:					Guadalupe River	

#### **Application Distribution**

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the "Texas Groundwater Conservation Districts within the EAPP Boundaries" map found at:

http://www.tceq.texas.gov/assets/public/compliance/field\_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

Austin Region			
County:	Hays	Travis	Williamson
Original (1 req.)	_	_	_
Region (1 req.)	_	_	_
County(ies)		_	_
Groundwater Conservation District(s)	Edwards Aquifer AuthorityBarton Springs/ Edwards AquiferHays TrinityPlum Creek	Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	AustinBudaDripping SpringsKyleMountain CitySan MarcosWimberleyWoodcreek	AustinBee CavePflugervilleRollingwoodRound RockSunset ValleyWest Lake Hills	AustinCedar ParkFlorenceGeorgetownJerrellLeanderLiberty HillPflugervilleRound Rock

	San Antonio Region				
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)	_	_X_	_		_
Region (1 req.)	_	_X_			_
County(ies)		_X_			
Groundwater Conservation District(s)	Edwards Aquifer Authority Trinity-Glen Rose	_X Edwards Aquifer Authority	Kinney	EAA Medina	EAA Uvalde
City(ies) Jurisdiction	Castle HillsFair Oaks RanchHelotesHill Country VillageHollywood ParkSan Antonio (SAWS)Shavano Park	BulverdeFair Oaks RanchGarden Ridge X New BraunfelsSchertz	NA	San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.		
Richard Underwood, P.E. (Authorized Agent)		
Print Name of Customer/Authorized Agent		
Mus Under	07/01/2024	
Signature of Customer/Authorized Agent	Date	

**FOR TCEQ INTERNAL USE ONL	.Y**			
Date(s)Reviewed:	Date Administratively Complete:		ninistratively Complete:	
Received From:	(	Correct N	Number of Copies:	
Received By:	]	Distributi	ion Date:	
EAPP File Number:	(	Complex:	:	
Admin. Review(s) (No.):	1	No. AR R	ounds:	
Delinquent Fees (Y/N):	1	Review Time Spent:		
Lat./Long. Verified:	5	SOS Customer Verification:		
Agent Authorization Complete/Notarized (Y/N):	1	Fee	Payable to TCEQ (Y/N):	
Core Data Form Complete (Y/N):	1 =	Check:	Signed (Y/N):	
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):	

#### **General Information Form**

Print Name of Customer/Agent: Richard Underwood, P.E.

**Texas Commission on Environmental Quality** 

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

#### Signature

Date: 07/01/2024

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Ju	nature of Customer/Agent:  Mullimon  Toject Information
1.	Regulated Entity Name: <u>Additions &amp; Renovations to New Braunfels Highschool for New Braunfels I.S.D, Phase 2</u>
2.	County: Comal
3.	Stream Basin: <u>Guadalupe River Basin</u>
4.	Groundwater Conservation District (If applicable): N/A
5.	Edwards Aquifer Zone:
	Recharge Zone Transition Zone
6.	Plan Type:
	WPAP

	UST	Exception Request
7. Cı	ustomer (Applicant):	
Er W Ci Te	ontact Person: <u>Joseph Mansfield</u> ntity: <u>New Braunfels ISD</u> lailing Address: <u>1000 N Walnut</u> ty, State: <u>New Braunfels, TX</u> elephone: <u>8406435700</u> mail Address:	Zip: <u>78130</u> FAX:
8. A	gent/Representative (If any):	
Er W Ci Te	ontact Person: <u>Richard Underwood, P.E.</u> ntity: <u>Kimley-Horn &amp; Associates Inc.</u> ailing Address: <u>10101 Reunion Place, Suite 400</u> ty, State: <u>San Antonio, TX</u> elephone: <u>2103213415</u> mail Address: <u>richard.underwood@kimley-horn.c</u>	Zip: <u>78216</u> FAX: : <u>om</u>
9. Pı	oject Location:	
10.	The project site is located inside the city limits. The project site is located outside the city limit jurisdiction) of The project site is not located within any city's The location of the project site is described bel	s but inside the ETJ (extra-territorial limits or ETJ.
	detail and clarity so that the TCEQ's Regional st boundaries for a field investigation.	taff can easily locate the project and site
	2551 Loop 337, New Braunfels, TX 78130	
11. 🔀	Attachment A – Road Map. A road map showi project site is attached. The project location and the map.	_
12. 🔀	Attachment B - USGS / Edwards Recharge Zon USGS Quadrangle Map (Scale: 1" = 2000') of th The map(s) clearly show:	
	<ul> <li>☑ Project site boundaries.</li> <li>☑ USGS Quadrangle Name(s).</li> <li>☑ Boundaries of the Recharge Zone (and Trance)</li> <li>☑ Drainage path from the project site to the boundaries.</li> </ul>	
13. 🔀	The TCEQ must be able to inspect the project sufficient survey staking is provided on the prothe boundaries and alignment of the regulated features noted in the Geologic Assessment.	ject to allow TCEQ regional staff to locate

Sur	vey staking will be completed by this date:
nar	achment C – Project Description. Attached at the end of this form is a detailed rative description of the proposed project. The project description is consistent oughout the application and contains, at a minimum, the following details:
	Area of the site Offsite areas Impervious cover Permanent BMP(s) Proposed site use Site history Previous development Area(s) to be demolished
15. Existing	g project site conditions are noted below:
	Existing commercial site Existing industrial site Existing residential site Existing paved and/or unpaved roads Undeveloped (Cleared) Undeveloped (Undisturbed/Uncleared) Other:
Prohib	ited Activities
	n aware that the following activities are prohibited on the Recharge Zone and are not posed for this project:
(1)	Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
(2)	New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
(3)	Land disposal of Class I wastes, as defined in 30 TAC §335.1;
(4)	The use of sewage holding tanks as parts of organized collection systems; and
(5)	New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
(6)	New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.
	n aware that the following activities are prohibited on the Transition Zone and are proposed for this project:

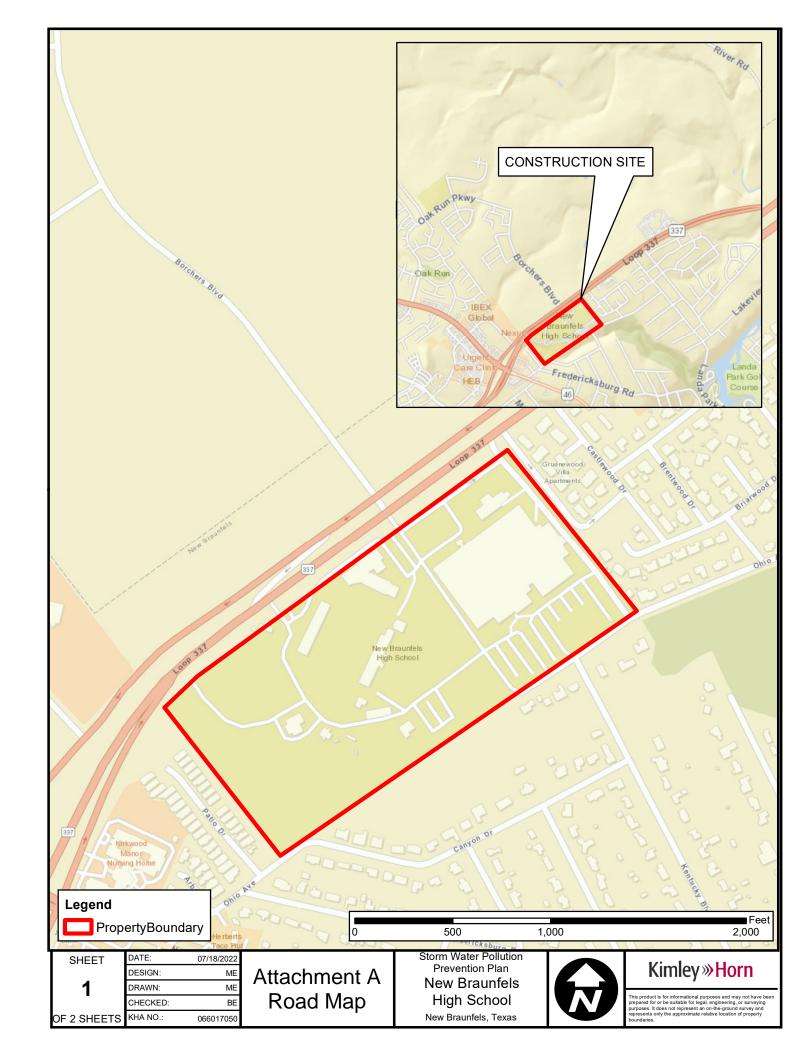
(1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground

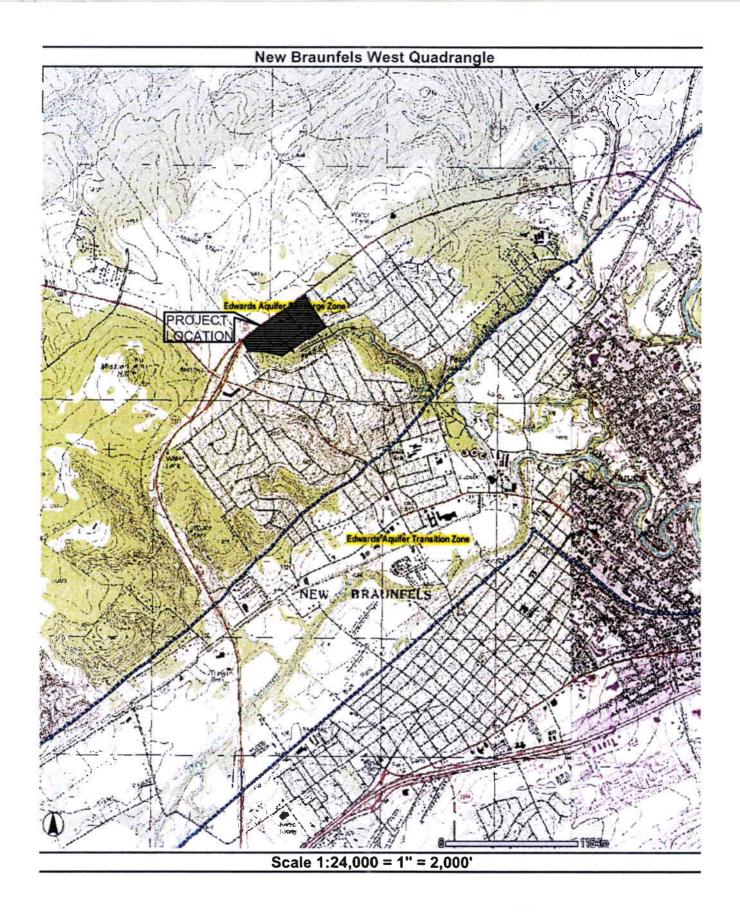
Injection Control);

- (2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and
- (3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

#### **Administrative Information**

18. Th	e fee for the plan(s) is based on:
	For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.  For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.  For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.  A request for an exception to any substantive portion of the regulations related to the protection of water quality.  A request for an extension to a previously approved plan.
19. 🔀	Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:
	<ul> <li>☐ TCEQ cashier</li> <li>☐ Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)</li> <li>☑ San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)</li> </ul>
20. 🔀	Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
21. 🗵	No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.





ATTACHMENT B USGS/ Edwards Recharge Zone Map

#### **APPENDIX**

#### PROJECT DESCRIPTION

This modification is being submitted for the proposed additions to New Braunfels High School for New Braunfels I.S.D. Phase 2 in New Braunfels, Comal County, Texas. The site is located at 2551 TX-337 Loop, as shown in the Road Map (Attachment A).

A previous Water Pollution Abatement Plan (WPAP) was modified and approved on March 17, 2011 and included 29.96 acres of impervious cover, including the proposed Greenhouse addition (records not available upon request per TCEQ).

Another WPAP modification was approved in 2016 and decreased the overall impervious cover from 29.96 acres to 29.92 acres. The existing percentage of impervious cover is 53.42% of the site. All work for the 2016 modification has been completed. The water quality pond has been inspected, and a letter of substantial completion was submitted to the TCEQ. (Records not available upon request per TCEQ).

Then a WPAP Exception (#13001148) was approved in 2020 for the renovation and construction of facilities around the high school's baseball fields. The site's impervious cover increased to 58.16% of the entire 56-acre site (net increase of 2.59 ac). The total previous cover is 29.98 acres. (See Appendix A).

Another WPAP modification (#13001727) was approved June 16, 2023, for the additional improvements to school buildings, athletic courts, athletic fields, locker room, associated parking, and drive aisles. The site's impervious cover was approved at 58.16% (32.57 ac).

This proposed modification has used 39.91 acres of existing impervious cover for the start of the analysis as Kimley-Horn has been made aware of New Braunfels ISD conversions of the existing football (±2 acres), baseball (±3 acres), and softball (±1 acre) fields to artificial turf. In addition, additional survey was obtained along Ohio Avenue detailing an additional ±1.30 acres of existing impervious cover associated with existing Ohio Avenue ROW that was previously excluded from previous WPAP analyses. Kimley-Horn has not been able to identify documentation of any TCEQ records associated with these conversions. This proposed modification is intended to document how the proposed water quality bmp's associated with only the new 4.19 acres of additional impervious construction identified in this project comply with TCEQ's requirements.

The existing high school consists of school buildings, athletic facilities, associated parking, and drive aisles. Generally, the site sheet flows from the north to the southeast property line. The overall site drains into an existing private storm system and then discharges into a filtration / sedimentation and detention pond, currently being rebuilt per the modification approved in 2023. Runoff from north and west will continue to overland flow off site and exits the property without detention or treatment.

The surrounding area has been fully developed, and the property is zoned as R-2 for Single Family and Two Family Residential. The site is not within the limits of any 100-yr flood plain and does not have a Critical Water Quality Zone. The site is however, located within the Edward's Aquifer Recharge Zone.

The proposed high school Phase 2 improvements include additional school buildings, athletic courts, athletic fields, locker rooms, associated parking, and drive aisles. The site's impervious cover will increase to 77.96 % of the entire 56-acre site (44.10 ac). The existing sand filter pond will remain to continue to treat the Phase 1 storm improvements, as well as some of the west portion of Phase 2. A new, private storm system will convey runoff from the redeveloped Phase 2 portions of the site to a proposed underground detention system, with a proprietary media cartridge filter (Jellyfish) water quality structure just before entry, in the southernmost parking lot. The proposed system will outfall to the level spreader constructed with Phase 1 and will runoff to the drainage channel southeast of the site. The proposed improvements include a new artificial turf practice football field on the south-west side of the existing drainage channel. This field will be treated by a second proprietary media cartridge filter (Jellyfish) water quality structure. A portion of the site to the north and west will continue to overland flow off site to Loop 337 as before, in the existing condition. Please reference the Proposed Phase II Drainage Area Map to see the above description in detail.

ATTACHMENTC Project Description

#### **Geologic Assessment**

**Texas Commission on Environmental Quality** 

For Regulated Activities on The Edwards Aquifer Recharge/transition Zones and Relating to 30 TAC §213.5(b)(3), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

#### Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

~ 100		
Print Name of Geologist: Jonathan B. Selby	Telephone: <u>512-658-71</u>	<u>78</u>
Date: <u>07/19/2016</u>	Fax: <u>none</u>	
Representing: Jonathan B. Selby; #2455		STATE OF TEXAS
	,	
Signature of Geologist:	g	JONATHAN B. SELBY
0873	Ķ	GEOLOGY S
	· ·	No. 2445
Regulated Entity Name: NBISD New Braunfels H	igh School Improvements	ONAL & GEOSCH
man to a make a contract		

#### **Project Information**

1.	Date(s) Geologic Assessment was performed: <u>07/1</u>	6/2016
2.	Type of Project:	
3.	WPAP SCS Location of Project:	AST UST
	Recharge Zone Transition Zone Contributing Zone within the Transition Zone	

- 4. Attachment A Geologic Assessment Table. Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.
- 5. Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups\* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)
Comfort-Rock outcrop complex (CrD)	D	1.67
Eckrant-Rock outcrop complex (ErG)	D	1.67
Rumple-Comfort association (RUD)	С	3.0

- \* Soil Group Definitions (Abbreviated)
  - A. Soils having a high infiltration rate when thoroughly wetted.
  - B. Soils having a moderate infiltration rate when thoroughly wetted.
  - C. Soils having a slow infiltration rate when thoroughly wetted.
  - D. Soils having a very slow infiltration rate when thoroughly wetted.
- 6. Attachment B Stratigraphic Column. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
- 7. Attachment C Site Geology. A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
- 8. Attachment D Site Geologic Map(s). The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'

Applicant's Site Plan Scale: 1" = 100' Site Geologic Map Scale: 1" = 100'

Site Soils Map Scale (if more than 1 soil type): 1" = 500'

9. Method of collecting positional data:

Global Positioning System (GPS) technology.

Other method(s). Please describe method of data collection: \_\_\_\_\_

10. 🔀	The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
11. 🔀	Surface geologic units are shown and labeled on the Site Geologic Map.
	Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
	Geologic or manmade features were not discovered on the project site during the field investigation.
13. 🖂	The Recharge Zone boundary is shown and labeled, if appropriate.
	known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If blicable, the information must agree with Item No. 20 of the WPAP Application Section.
	There are 4 (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)  The wells are not in use and have been properly abandoned.  The wells are not in use and will be properly abandoned.  The wells are in use and comply with 16 TAC Chapter 76.  There are no wells or test holes of any kind known to exist on the project site.
4dm	inistrative Information
	Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional

copies to these jurisdictions. The copies must be submitted to the appropriate regional

office.

	LOCATIO	SMENT TAE	rate in the			FEA			CT NA					Braunfels						L SETTIN
IA	18+	1C*	2A	28	3		4		5	5A	8	7	8A	88	9		10	_	11	12
FEATURE :0	LATITUDE	LONGITUDE	FEATLAE TYPE	РОНТВ	FORMATION	DIME	Malons	(F9ET)	TREND (DEORÉES)	ğ	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFLITRATION RATE	NOTAL	SEN	итеутт		RES	TOPOGRAPIN
	N	W				x	Y	2		10						440	>40	<1.8	>1.0	
\$1	29.717307	-98.152667	MB	30				25'						5	35	X		Х		Hillside
52	29.716845	-98.151788	MB	30				20'						5	35	X		X		Hillside
S3	29.718071	-98.15111	MB	30				20'						5	35	X		Х		Hillside
34	29.719122	-98.149965	МВ	30				20'						5	35	X		Х		Hillside
											00.10									

2A TY	PE TYPE	28 POINT
C	Cave	3
sc	Solution cavity	2
SF	Solution-enlarged fracture(s)	2
F	Fault	2
0	Other natural bedrock features	
MB	Manmade feature in bedrock	3
SW	Swallow hole	3
SH	Sinkhole	2
CD	Non-karst closed depression	
Z	Zone, clustered or aligned features	3

	BA INFILLING
N	None, exposed bedrock
C	Coarse - cobbles, breakdown, sand, gravel
0	Loose or soft mud or soil, organics, leaves, sticks, dark colors
F	Fines, compacted clay-rich sediment, soil profile, gray or red colors
V	Vegetation. Give details in nametive description
S	Flowstone, cements, cave deposits
X	Other materials

12 TOPOGRAPHY
Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

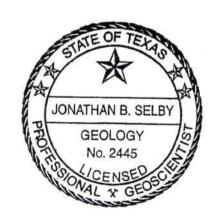
I have read, I understood, and I have followed the Texas Commission on Environmental Quality's instructions to Geologists. The information presented here compiles with that document and is a true representation of the conditions observed in the field.

My signature cartifies that I in qualified as a geologist as defined by 30 TAC Chapter 213.

Date: 07/19/2016

Sheet \_\_\_1\_\_ of \_\_1\_\_\_

TCEQ-0585-Table (Rev. 10-01-04)



#### STRATIGRAPHIC COLUMN

#### NBISD New Braunfels High School Improvements 2551 Loop 337 New Braunfels TX, 78130

	SYSTEM	FORMATION	THICKNESS	GENERAL DESCRIPTION
	Cretaceous	Pearson (Kep)	~50' – 75'	Cyclic and Marine Members, Undivided Limestone, dolomite and chert: limestone is fine-grained, massive to thin bedded; dolomite is fine-grained, grayish brown and porous; chert nodules common. Vuggy.
D.	Cretaceous	Kainer (Kek)	100'	Massively bedded cyclic subtidal to tidal flat mudstone to grainstone dolomitic limestone

#### SITE GEOLOGY

#### NBISD New Braunfels High School Improvements 2551 Loop 337 New Braunfels TX, 78130

#### Description:

The site is located at 2551 Loop 337, New Braunfels, Texas. The site, which slopes to the east and southeast, is located on the Cretaceous Pearson Formation (Kep) which dips gently to the southeast. Regional geologic maps do not indicate any faults transect the site.

#### Soils:

The soil types on-site are: The Comfort-Rock outcrop complex (CrD), with 1 to 8 percent slopes, averaging 20 inches in thickness and possesses moderately slow permeability (0.06-0.20 in/hr). The Eckrant-Rock outcrop complex (ErG), with 8 to 30 percent slopes, averaging 20 inches in thickness and possesses moderately slow permeability (0.20-0.60 in/hr). The Rumple-Comfort association (RUD), with 1 to 8 percent slopes, averaging 36 inches in thickness and possesses moderately slow permeability (0.20-0.60 in/hr).

#### Features:

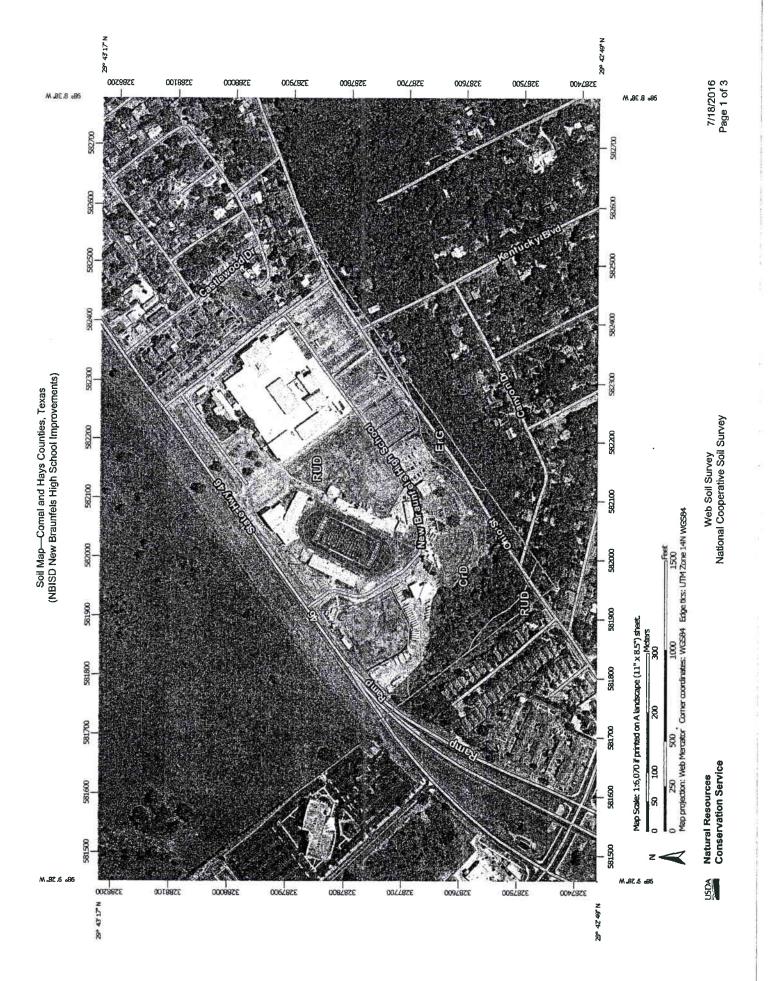
The site was investigated according to TCEQ guidelines.

There are four boreholes located on the site. All boreholes were plugged according to regulations.

\$1- Borehole 1 was drilled to a depth of 25'. Voids were discovered between 9'
- 14½' and 19' - 23'. These voids are not connected to any visible recharge feature at the surface.

**\$2, \$3 & \$4**- Boreholes 2-4 were drilled to a depth of 20'. No voids were penetrated during drilling.

No solution cavities, caves, sinkholes, faults, fractured outcrops, other karst-related features or water wells were discovered. No recharge features were discovered. Therefore, on a relative basis, recharge on-site is low.



## MAP LEGEND

Area of In	Area of Interest (AOI)	I	Spoil Area
	Area of Interest (AOI)	473	Stony Spot
Soils		) \$	tors Street
	Soil Map Unit Polygons	3	very storily spot
1	Soil Map Unit Lines	ij.	Wet Spot
	Soil Man Hait Points	S	Other
Special	Special Point Features	ţ	Special Line Features
[6]	Blowout	Water Features	tures
) Ç	Borrow Dit	Y	Streams and Canals
g		Transportation	atlon
×	Clay Spot	Ĭ	Rails
0	Closed Depression	}	Interstate Highways
凑	Gravel Pit	ì	US Routes
٠;	Gravelly Spot		Major Roads
٥	Landfill		Local Roads
ليرد	Lava Flow	Background	PL
ᆌ	Marsh or swamp		Aerial Photography
献	Mine or Quarry		
<b>©</b>	Miscellaneous Water		
0	Perennial Water		
<b>&gt;</b>	Rock Outcrop		
÷	Saline Spot		
*,*	Sandy Spot		
ψ	Severely Eroded Spot		
Φ	Sinkhole		
£.	Slide or Slip		
Ø	Sodic Spot		

# MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting Enlargement of maps beyond the scale of mapping can cause soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Natural Resources Conservation Service Coordinate System: Web Mercator (EPSG:3857) Source of Map:

Albers equal-area conic projection, should be used if more accurate Maps from the Web Soil Survey are based on the Web Mercator distance and area. A projection that preserves area, such as the projection, which preserves direction and shape but distorts calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Comal and Hays Counties, Texas

Version 11, Sep 24, 2015 Survey Area Data:

Soil map units are labeled (as space allows) for map scales 1:50,000

or larger.

Date(s) aerial images were photographed: Feb 6, 2011—Feb 12,

imagery displayed on these maps. As a result, some minor shifting The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background of map unit boundaries may be evident.

#### Map Unit Legend

Comel and Hays Countles, Texas (TX604)						
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI			
CrD	Comfort-Rock outcrop complex, 1 to 8 percent slopes	11.4	17.1%			
ErG	Eckrant-Rock outcrop complex, 8 to 30 percent slopes	1.7	2.5%			
RUD	Rumple-Comfort association, 1 to 8 percent slopes	53.8	80.4%			
Totals for Area of Interest		66.9	100.0%			

## Modification of a Previously Approved Plan

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Transition Zone and Relating to 30 TAC 213.4(j), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

#### Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This request for a Modification of a Previously Approved Plan is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: <u>Richard Underwood</u>, <u>P.E.</u>

Date: <u>07/01/2024</u> Signature of Customer/Agent:

#### Project Information

1.	Current Regulated Entity Name: <u>Additions &amp; Renovations to New Braunfels HighSchool for New Braunfels I.S.D., Phase 2</u>
	Original Regulated Entity Name: N/A
	Regulated Entity Number(s) (RN): RN102402526
	Edwards Aquifer Protection Program ID Number(s):
	The applicant has not changed and the Customer Number (CN) is: <u>CN600397814</u>
	The applicant or Regulated Entity has changed. A new Core Data Form has been provided.
2.	Attachment A: Original Approval Letter and Approved Modification Letters. A copy of the original approval letter and copies of any modification approval letters are attached.

Physical or operatincluding but not diversionary structure. Change in the nationally approving plan to prevent pollution abatem Physical modification.	Ilimited to ponds, dams, berms, setures; ture or character of the regulated ed or a change which would sign collution of the Edwards Aquifer; land previously identified as undenent plan; ation of the approved organized setion of the approved undergrour	pollution abatement structure(s) sewage treatment plants, and d activity from that which was ificantly impact the ability of the eveloped in the original water ewage collection system; and storage tank system;
Physical modifica	ition of the approved abovegrour	nd storage tank system.
plan has been modif	ed Modifications (select plan type ied more than once, copy the app plete the information for each add	-
WPAP Modification	Approved Project	Proposed Modification
Summary		
Acres	<u>56.0</u>	<u>56.0</u>
Type of Development	Commercial	<u>Commercial</u>
Number of Residential	N/A	<u>N/A</u>
Lots		
Impervious Cover (acres)	<u>32.57</u>	44.10
Impervious Cover (%	<u>58.16</u>	<u>77.94</u>
Permanent BMPs	Sand Filter	2 Jellyfish Filters
Other		
SCS Modification	Approved Project	Proposed Modification
Summary		
Linear Feet	<u>N/A</u>	<u>N/A</u>
Pipe Diameter	<u>N/A</u>	<u>N/A</u>
Other	N/A	N/A

AST Modification	Approved Project	Proposed Modification
Summary		
Number of ASTs	<u>N/A</u>	<u>N/A</u>
Volume of ASTs	<u>N/A</u>	<u>N/A</u>
Other	<u>N/A</u>	<u>N/A</u>
UST Modification	Approved Project	Proposed Modification
Summary		
Number of USTs	<u>N/A</u>	NA/
Volume of USTs	<u>N/A</u>	<u>N/A</u>
Other	<u>N/A</u>	<u>N/A</u>
the nature of the propose	e of Proposed Modification. A deta ed modification is attached. It disc odifications, and how this propose	usses what was approved,
the existing site development modification is attached. modification is required a subsequent modification any subsequent modification any subsequent modification document that the approved construction illustrates that the site of the approved construction of the approved con	ite Plan of the Approved Project. ment (i.e., current site layout) at the A site plan detailing the changes pelsewhere. Inction has not commenced. The original fication approval letters are included proval has not expired. Inction has commenced and has been a was constructed as approved. Inction has commenced and has been a was not constructed as approved and has not tes that, thus far, the site was constituted and has not tes that, thus far, the site was not the site wa	e time this application for proposed in the submitted iginal approval letter and ed as Attachment A to en completed. Attachment Can completed. Attachment Can completed. Attachment Can completed. It been completed. It been completed.
provided for the new acre	ved plan has increased. A Geologic eage. ded to or removed from the approv	
needed for each affected	nd one (1) copy of the application, incorporated city, groundwater co ect will be located. The TCEQ will d	nservation district, and

copies to these jurisdictions. office.	The copies must be submitted to the appropriate regions

#### Attachment A

## Original Approval Letter (Unavailable upon request per TCEQ staff)

Jon Niermann, *Chairman*Emily Lindley, *Commissioner*Bobby Janecka, *Commissioner*Kelly Keel, *Interim Executive Director* 



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 16, 2023

Clint McClain New Braunfels ISD 1000 N Walnut New Braunfels, Texas 78130

Re: Modification of an approved Water Pollution Abatement Plan (WPAP)

Additions and Renovation to New Braunfels ISD High School; Located at 2551 Loop 377;

New Braunfels, Comal County, Texas

Edwards Aquifer Protection Program ID: 13001727, Regulated Entity No. RN102402526

#### Dear Mr. McClain:

The Texas Commission on Environmental Quality (TCEQ) has completed its review on the application for the above-referenced project submitted to the Edwards Aquifer Protection Program (EAPP) by Kimley-Horn & Associates Inc. on behalf of the applicant, New Braunfels ISD on March 30, 2023. Final review of the application was completed after additional material was received on June 2, 2023.

As presented to the TCEQ, the application was prepared in general compliance with the requirements of 30 Texas Administrative Codes (TAC) Chapter §213. The permanent best management practices (BMPs) and measures represented in the application were prepared by a Texas licensed professional engineer (PE). All construction plans and design information were sealed, signed, and dated by a Texas licensed PE. Therefore, the application for the construction of the proposed project and methods to protect the Edwards Aquifer are **approved**, subject to applicable state rules and the conditions in this letter.

This approval expires two years from the date of this letter, unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been officially requested. This approval or extension will expire, and no extension will be granted if more than 50 percent of the project has not been completed within ten years from the date of this letter.

The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer protection plan. A motion for reconsideration must be filed in accordance with 30 TAC §50.139.

#### **BACKGROUND**

The New Braunfels ISD High School WPAP (13-97121101A) was approved by letter dated February 16, 2001 and included one (1) sand filter basin and one (1) vegetated filter strip were approved as permanent BMPs.

Subsequent WPAPMODs (13-97121101D, 97121101E, 97121101F, 97121101G, 13000222 and 13001148) were approved between years 2002 and 2020. Total impervious cover was increased to 29.98-acres and three (3) vegetative filter strips and one (1) sand filter basin were designed and constructed to provide treatment.

#### PROJECT DESCRIPTION

The proposed school project will have an area of approximately 56-acres. The modification will include the construction of school buildings, athletic courts, athletic fields, parking and drives as well as renovations and improvements to existing buildings, the demolition of the existing sand filter basin and construction of a replacement sand filter basin. The impervious cover will be 32.57-acres (58.16 percent). Project wastewater will be disposed of by conveyance to the existing Kuehler Wastewater Treatment Plant

#### PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, one (1) sand filter basin and three (3) previously approved vegetative filter strips (1397121101, 13-97121101D, 13001148), designed using the TCEQ technical guidance, *RG-348*, *Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices*, will be constructed and implemented to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 2,325 pounds of TSS generated from the 32.57-acres of impervious cover. The approved permanent BMPs and measures meet the required 80 percent removal of the increased load in TSS caused by the project.

The permanent BMPS shall be operational prior to occupancy or use of the proposed project. Inspection, maintenance, repair, and retrofit of the permanent BMPs shall be in accordance with the approved application.

#### **GEOLOGY**

According to the Geologic Assessment (GA) included with the application, the surficial unit of the site is the cyclic and marine members of the Cretaceous Pearson Formation. No sensitive geologic features were identified in the GA. The site assessment conducted on May 19, 2023 by TCEQ staff determined the site to be generally as described by the GA.

#### SPECIAL CONDITIONS

I. This modification is subject to all the special and standard conditions listed in the approval letter(s) dated February 16, 2001, May 29, 2002, August 17, 2007, August 4, 2008, March 17, 2011, September 28, 2016, July 16, 2020, and June 16, 2020.

#### STANDARD CONDITIONS

- 1. The plan holder (applicant) must comply with all provisions of 30 TAC Chapter §213 and all technical specifications in the approved plan. The plan holder should also acquire and comply with additional and separate approvals, permits, registrations or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, Dam Safety, Underground Injection Control) as required based on the specifics of the plan.
- 2. In addition to the rules of the Commission, the plan holder must also comply with state and local ordinances and regulations providing for the protection of water quality as applicable.

#### Prior to Commencement of Construction:

3. Within 60 days of receiving written approval of an Edwards Aquifer protection plan, the plan holder must submit to the EAPP proof of recordation of notice in the county deed records, with the volume and page number(s) of the county record. A description of the property boundaries shall be included in the deed recordation in the county deed records. TCEQ form, Deed Recordation Affidavit (TCEQ-0625), may be used.

Clint McLain Page 3 June 16, 2023

- 4. The plan holder of any approved Edwards Aquifer protection plan must notify the EAPP and obtain approval from the executive director prior to initiating any modification to the activities described in the referenced application following the date of the approval.
- 5. The plan holder must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the EAPP no later than 48 hours prior to commencement of the regulated activity. Notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person.
- 6. Temporary erosion and sedimentation (E&S) controls as described in the referenced application, must be installed prior to construction, and maintained during construction. Temporary E&S controls may be removed when vegetation is established, and the construction area is stabilized. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
- 7. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring or gravel. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation.

#### **During Construction:**

- 8. This approval does not authorize the installation of temporary or permanent aboveground storage tanks on this project that will have a total storage capacity of five hundred gallons or more of static hydrocarbons or hazardous substances without prior approval of an Aboveground Storage Tank facility application.
- 9. If any sensitive feature is encountered during construction, replacement, or rehabilitation on this project, all regulated activities must be **immediately** suspended near it and notification must be made to TCEQ EAPP staff. Temporary BMPs must be installed and maintained to protect the feature from pollution and contamination. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality.
- 10. All water wells, including injection, dewatering, and monitoring wells shall be identified in the geologic assessment and must be in compliance with the requirements of the Texas Department of Licensing and Regulation 16 TAC Chapter §76 and all other locally applicable rules, as appropriate.
- 11. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
- 12. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge must be filtered through appropriately selected BMPs.
- 13. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction

Clint McLain Page 4 June 16, 2023

activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

14. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

#### **After Completion of Construction:**

- 15. Owners of permanent BMPs and temporary measures must ensure that the BMPs and measures are constructed and function as designed. A Texas licensed PE must certify in writing that the **permanent** BMPs or measures were constructed as designed. The certification letter must be submitted to the EAPP within 30 days of site completion.
- 16. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property or the ownership of the property is transferred to the entity. A copy of the transfer of responsibility must be filed with the executive director through the EAPP within 30 days of the transfer. TCEQ form, Change in Responsibility for Maintenance on Permanent BMPs and Measures (TCEQ-10263), may be used.

The holder of the approved Edwards Aquifer protection plan is responsible for compliance with Chapter §213 and any condition of the approved plan through all phases of plan implementation. Failure to comply with any condition within this approval letter is a violation of Chapter §213 and is subject to administrative rule or orders and penalties as provided under §213.10 of this title (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. Upon legal transfer of this property, the new owner is required to comply with all terms of the approved Edwards Aquifer protection plan.

This action is taken as delegated by the executive director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Drew Evans, P.G. of the Edwards Aquifer Protection Program at (210) 403-4053 or the regional office at 512-339-2929.

Sincerely,

Lillian Butler, Section Manager

**Edwards Aquifer Protection Program** 

Texas Commission on Environmental Quality

LIB/de

cc: Richard Underwood, P.E., Kimley-Horn and Associates, Inc

Jon Niermann, *Chairman*Emily Lindley, *Commissioner*Bobby Janecka, *Commissioner*Toby Baker, *Executive Director* 



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 16, 2020

Mr. Daryl Stoker New Braunfels Independent School District 430 W. Mill Street New Braunfels, Texas 78130

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: NBISD High School; Located at 2551 Loop 337 N; New Braunfels, Texas

TYPE OF PLAN: Request for an Exception to the Requirements of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer

Regulated Entity No. RN102402526; Additional ID No. 13001148

Dear Mr. Stoker:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the Exception Request application for the above-referenced project submitted to the San Antonio Regional Office by Gil Engineering Associates, Inc. on behalf of the New Braunfels Independent School District on May 22, 2020. Final review of the Exception Request was completed after additional material was received on June 16, 2020, June 26, 2020 and July 2, 2020. As presented to the TCEQ, the Exception Request proposed in the submittal is in general compliance with the requirements of 30 TAC Chapter 213. Therefore, the request for exception is hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.

#### PROJECT DESCRIPTION

The project site consists of the existing 56-acre New Braunfels Independent School District High School site. This project proposes the addition of 0.06 acres of impervious cover for concrete walkways, restroom, concession building, and parking associated with the existing baseball field. Total site impervious cover will increase to 29.98 acres (53.53 percent). Project wastewater will be disposed of by conveyance to the existing Kuehler Wastewater Treatment Plant owned and operated by New Braunfels Utilities.

#### PERMANENT POLLUTION ABATEMENT MEASURES

Mr. Daryl Stoker Page 2 July 16, 2020

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, a 15-foot engineered vegetative filter strip, designed using the TCEQ technical guidance document, <u>Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005)</u>, will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 54 pounds of TSS generated from the 0.06 acres of impervious cover. The approved measure meets the required 80 percent removal of the increased load in TSS caused by the project.

#### **GEOLOGY**

According to the geologic assessment included with the application, the site is located on the Person Formation. Four (4) non-sensitive manmade features in bedrock were noted by the project geologist. The TCEQ did not conduct a site assessment.

#### STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.

2. The holder of the approved Edwards Aquifer protection plan must comply with all provisions of 30 TAC Chapter 213 and all best management practices and measures contained in the approved plan. Additional and separate approvals, permits, registrations and/or authorizations from other TCEQ Programs (i.e., Stormwater, Water Rights, UIC) can be required depending on the specifics of the plan.

3. In addition to the rules of the Commission, the applicant may also be required to comply with state and local ordinances and regulations providing for the protection of water

quality.

#### Prior to Commencement of Construction:

4. Within 60 days of receiving written approval of an Edwards Aquifer Protection Plan, the applicant must submit to the San Antonio Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TCEQ-0625) that you may use to deed record the approved Exception is enclosed.

5. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Exception and this notice of approval shall be maintained at the project location until all

regulated activities are completed.

6. Modification to the activities described in the referenced Exception application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior

to initiating construction of the modifications.

7. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the San Antonio Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and program ID number for the regulated activity, and the name of the prime contractor with the name and telephone

Mr. Daryl Stoker Page 3 July 16, 2020

number of the contact person. The executive director will use the notification to determine

if the approved plan is eligible for an extension.

8. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Exception, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established, and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

9. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

#### **During Construction:**

10. During the course of regulated activities related to this project, the applicant or agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.

11. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank

location and spill containment. Refer to Standard Condition No. 6, above.

12. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the San Antonio Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.

13. No wells exist on site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump

Installers) and all other locally applicable rules, as appropriate.

14. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.

15. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence

rings, etc.

- 16. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 17. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities

Mr. Daryl Stoker Page 4 July 16, 2020

will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

#### After Completion of Construction:

18. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the San Antonio Regional Office within 30 days of site completion.

19. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. The regulated entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through San Antonio Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.

20. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.

21. An Edwards Aquifer protection plan approval or extension will expire, and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the San Antonio Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.

22. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact Dianne Pavlicek-Mesa, P.G. of the Edwards Aquifer Protection Program of the San Antonio Regional Office at 210-403-4074.

Sincerely.

Robert Sadlier, Section Manager Edwards Aquifer Protection Program

Texas Commission on Environmental Quality

RCS/dpm

Enclosures: Deed Recordation Affidavit, Form TCEQ-0625

Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

Mr. Daryl Stoker Page 5 July 16, 2020

cc: Mr. Victor Gil, P.E., Gil Engineering Associates

Mr. Robert Camareno, City of New Braunfels

Mr. Thomas H. Hornseth, P.E., Comal County Engineer

Mr. H. L. Saur, Comal Trinity Groundwater Conservation District

Mr. Roland Ruiz, Edwards Aquifer Authority

## NARRATIVE OF PROPOSED MODIFICATION

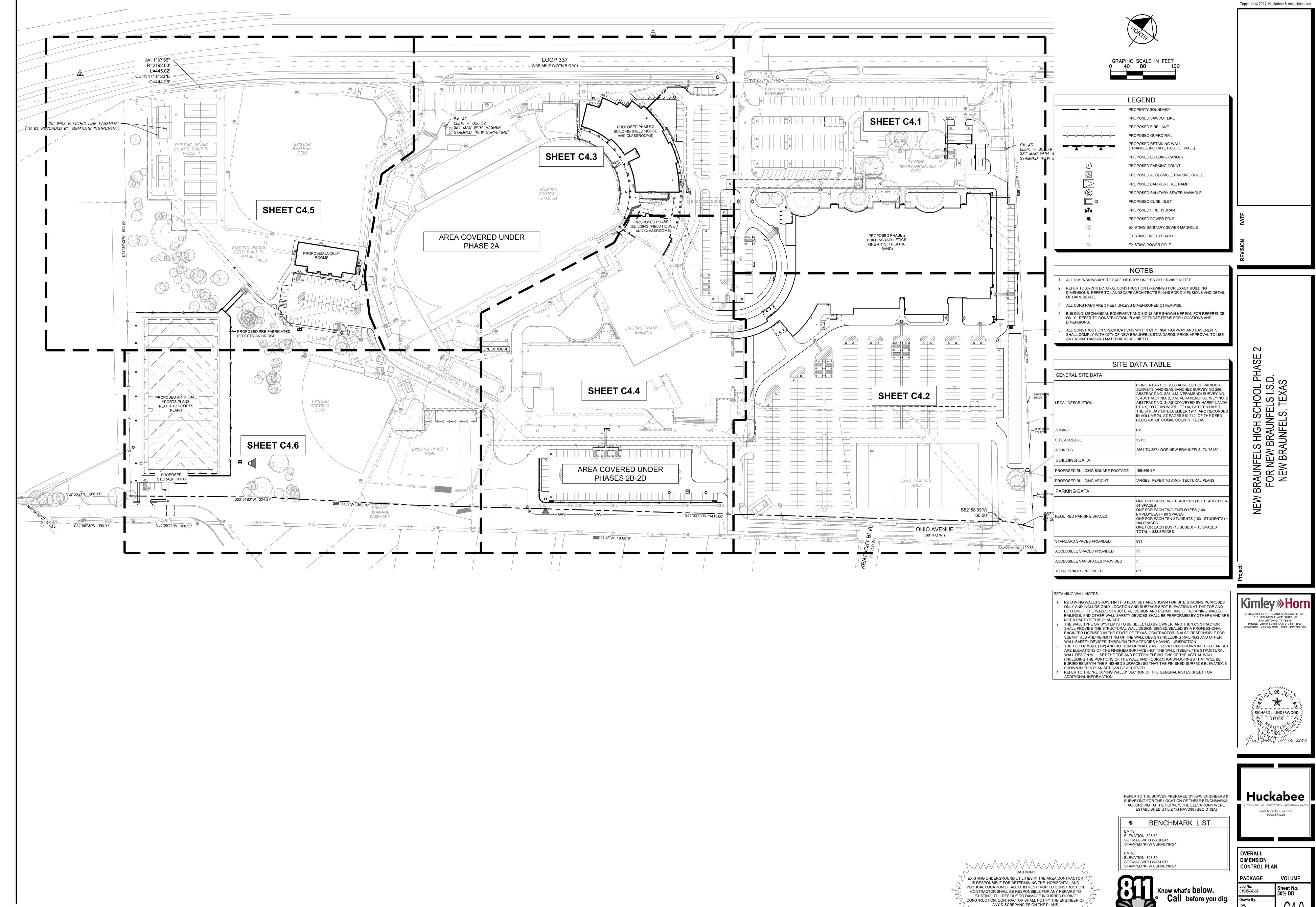
The proposed modification will increase the amount of impervious cover from 32.57 acres to 44.10 acres. This changes the overall site's impervious cover of 58.16% to 78.8%. The WPAP permitted in 2023 included 32.57 acres, so this modification will facilitate a net increase of 11.53 acres from the previous TCEQ approval. This proposed modification has used 39.91 acres of existing impervious cover for the start of the analysis as Kimley-Horn has been made aware of New Braunfels ISD conversions of the existing football (±2 acres), baseball (±3 acres), and softball (±1 acre) fields to artificial turf. In addition, additional survey was obtained at the southwest corner of the site detailing an additional ±1.30 of existing impervious cover associated with the existing Ohio Avenue ROW that was previously excluded from previous WPAP analyses. Kimley-Horn has not been able to identify documentation of any TCEQ records associated with the field conversions. This proposed modification is intended to document how the proposed water quality bmp's associated with only the new 4.19 acres of additional impervious construction identified in this project comply with TCEQ's requirements.

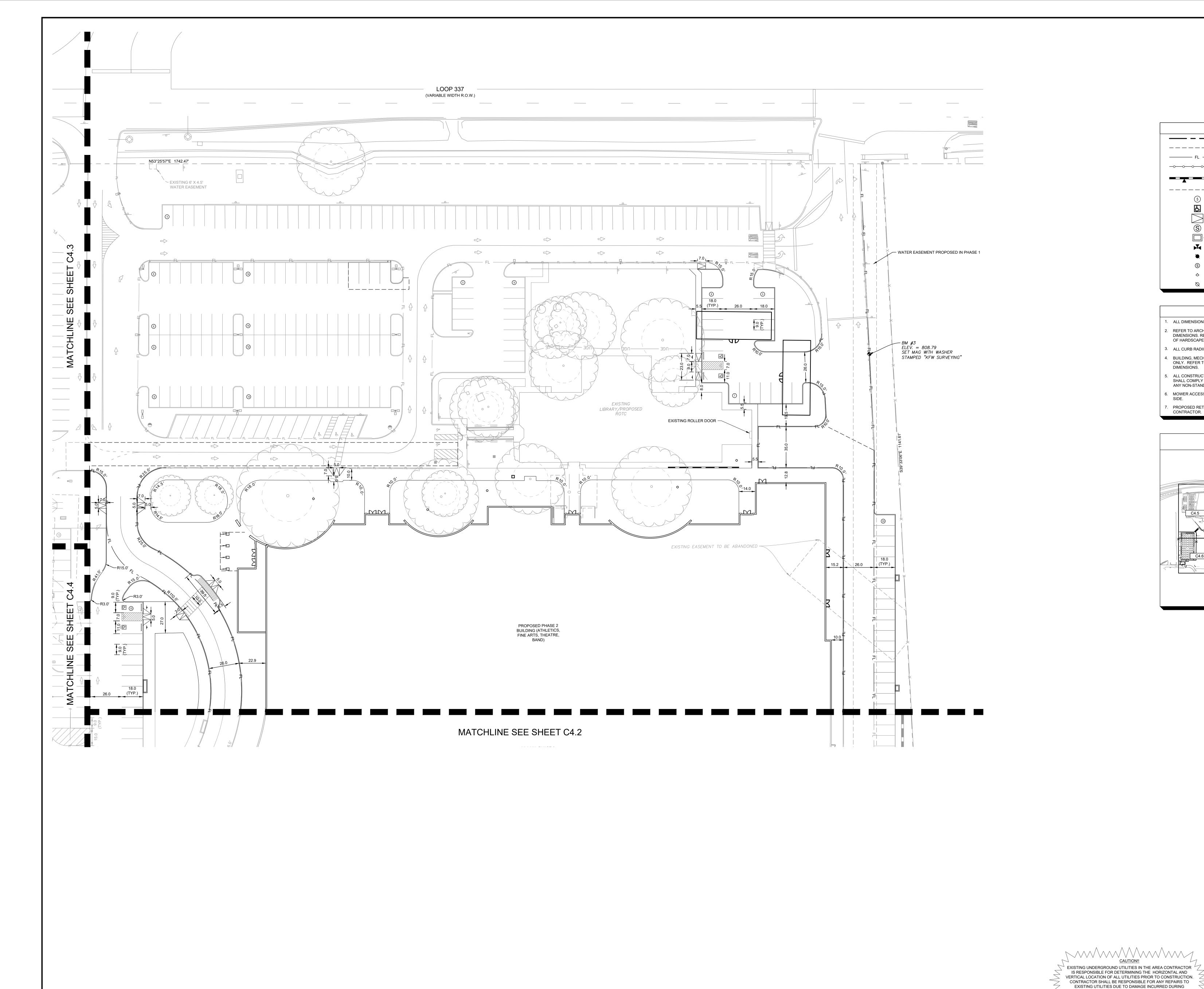
Generally, the site sheet flows from the north to the southeast property line. The overall developed portion of the site drains into an existing private storm system and then discharges into a filtration / sedimentation and detention pond. Runoff from the football field is currently routed to the southeast via overland flow and exits the property without detention or treatment. The site is not within the limits of any 100-yr flood plain and does not have a Critical Water Quality Zone. The site is however, located within the Edward's Aquifer Recharge Zone.

The proposed high school Phase 2 improvements include additional school buildings, athletic courts, athletic fields, locker rooms, associated parking, and drive aisles. The site's impervious cover will increase to 78.8 % of the entire 56-acre site (44.10 ac). The existing sand filter pond will remain to continue to treat the Phase 1 storm improvements, as well as some of the west portion of phase 2. A new, private storm system will convey runoff from the redeveloped Phase 2 portions of the site to a proposed underground detention system, with a proprietary media cartridge filter (Jellyfish) water quality structure just before entry, in the southernmost parking lot. The proposed system will outfall to the level spreader constructed with phase 1 and will runoff to the drainage channel southeast of the site. The proposed improvements include a new artificial turf practice football field on the south-west side of the existing drainage channel. This field will be treated by another Jellyfish water quality structure. A portion of the site to the north and west will continue to overland flow off site to Loop 337 as before, in the existing condition. Please reference the Proposed Phase II Drainage Area Map to see the above description in detail.

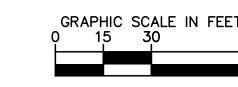
There are no factors affecting the surface water or ground water quality.

ATTACHMENTB
Narrative of Proposed Modification







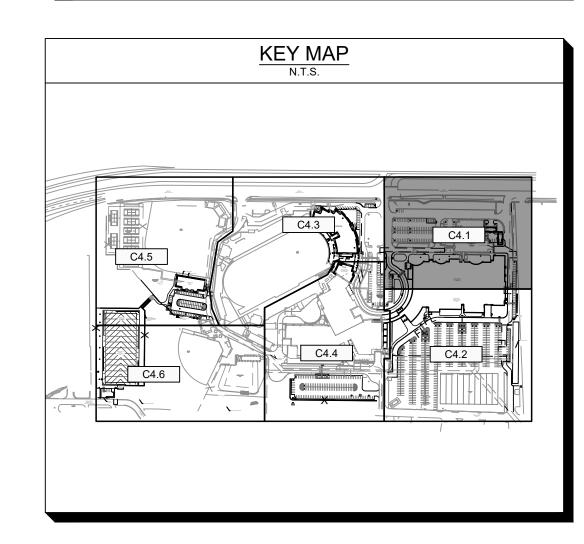


LEGEND PROPERTY BOUNDARY ---- PROPOSED SAWCUT LINE PROPOSED FIRE LANE PROPOSED GUARD RAIL <del>-0-0-0-0-0-</del> PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL) \_\_\_\_\_ PROPOSED BUILDING CANOPY PROPOSED PARKING COUNT PROPOSED ACCESSIBLE PARKING SPACE PROPOSED BARRIER FREE RAMP PROPOSED SANITARY SEWER MANHOLE PROPOSED CURB INLET PROPOSED FIRE HYDRANT PROPOSED POWER POLE EXISTING SANITARY SEWER MANHOLE EXISTING FIRE HYDRANT

NOTES

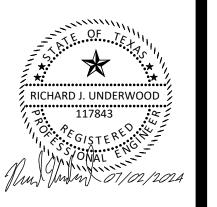
EXISTING POWER POLE

- 1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL CONSTRUCTION DRAWINGS FOR EXACT BUILDING DIMENSIONS. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR DIMENSIONS AND DETAI OF HARDSCAPE.
- 3. ALL CURB RADII ARE 3 FEET UNLESS DIMENSIONED OTHERWISE. 4. BUILDING, MECHANICAL EQUIPMENT AND SIGNS ARE SHOWN HEREON FOR REFERENCE ONLY. REFER TO CONSTRUCTION PLANS OF THOSE ITEMS FOR LOCATIONS AND DIMENSIONS.
- 5. ALL CONSTRUCTION SPECIFICATIONS WITHIN CITY RIGHT-OF-WAY AND EASEMENTS SHALL COMPLY WITH CITY OF NEW BRAUNFELS STANDARDS. PRIOR APPROVAL TO USE ANY NON-STANDARD MATERIAL IS REQUIRED. MOWER ACCESS CONSISTS OF 6' OF LAY DOWN CURB WITH 2' TRANSITION ON EACH
- PROPOSED RETAINING WALLS TO BE STRUCTURALLY DESIGNED AND PERMITTED BY CONTRACTOR.



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www.huckabee-inc.com 800.687.1229

**VOLUME** 

Huckabee REFER TO THE SURVEY PREPARED BY KFW ENGINEERS & SURVEYING FOR THE LOCATION OF THESE BENCHMARKS. ACCORDING TO THE SURVEY, THE ELEVATIONS WERE ESTABLISHED UTILIZING NAVD88 (GEOID 12A)

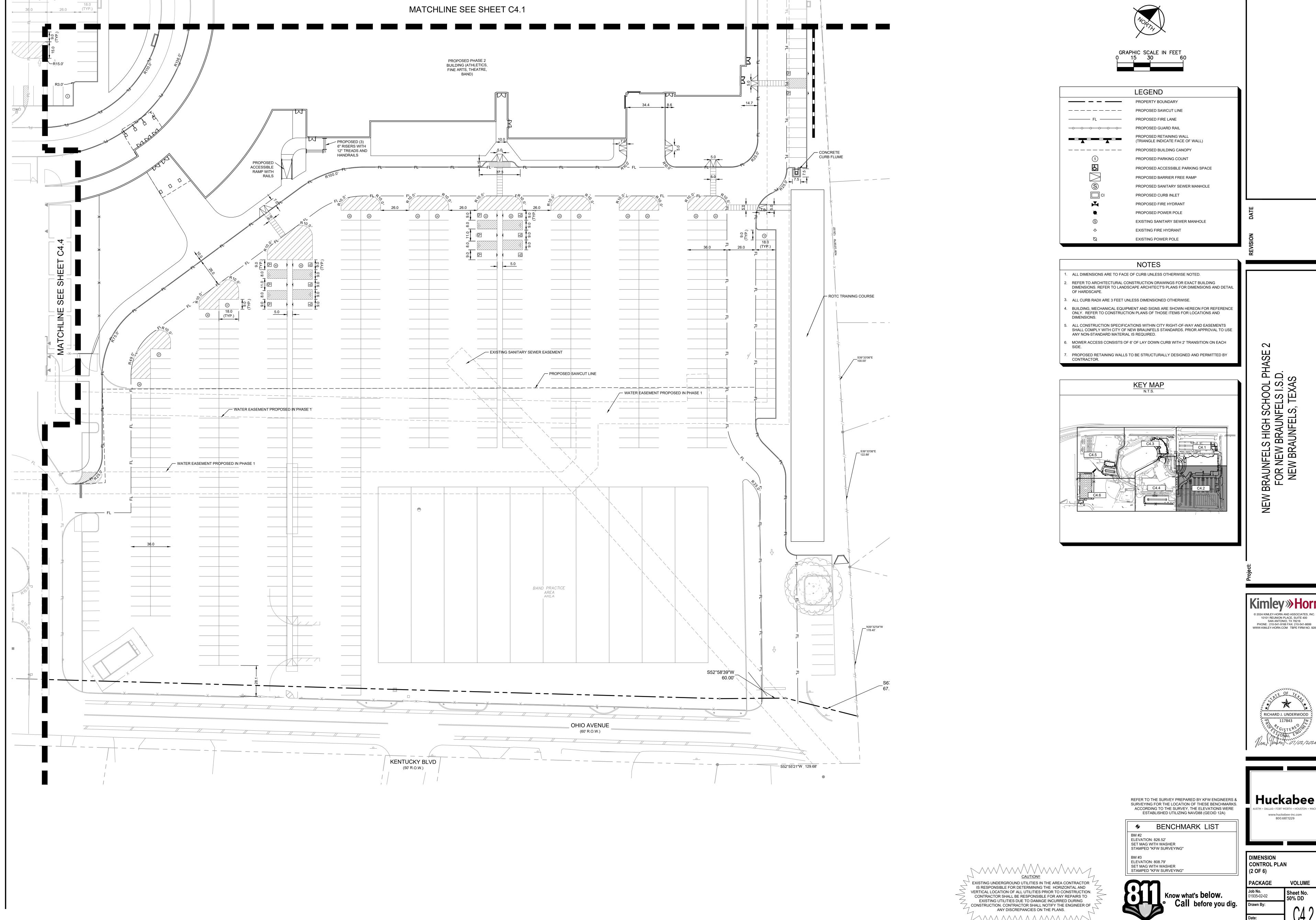
BENCHMARK LIST ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING" ELEVATION: 808.79' SET MAG WITH WASHER STAMPED "KFW SURVEYING"

CAUTION!!

 $_{
m J}$  Construction. Contractor shall notify the engineer of  $_{
m L}$ ANY DISCREPANCIES ON THE PLANS.

Know what's **below.**Call before you dig.

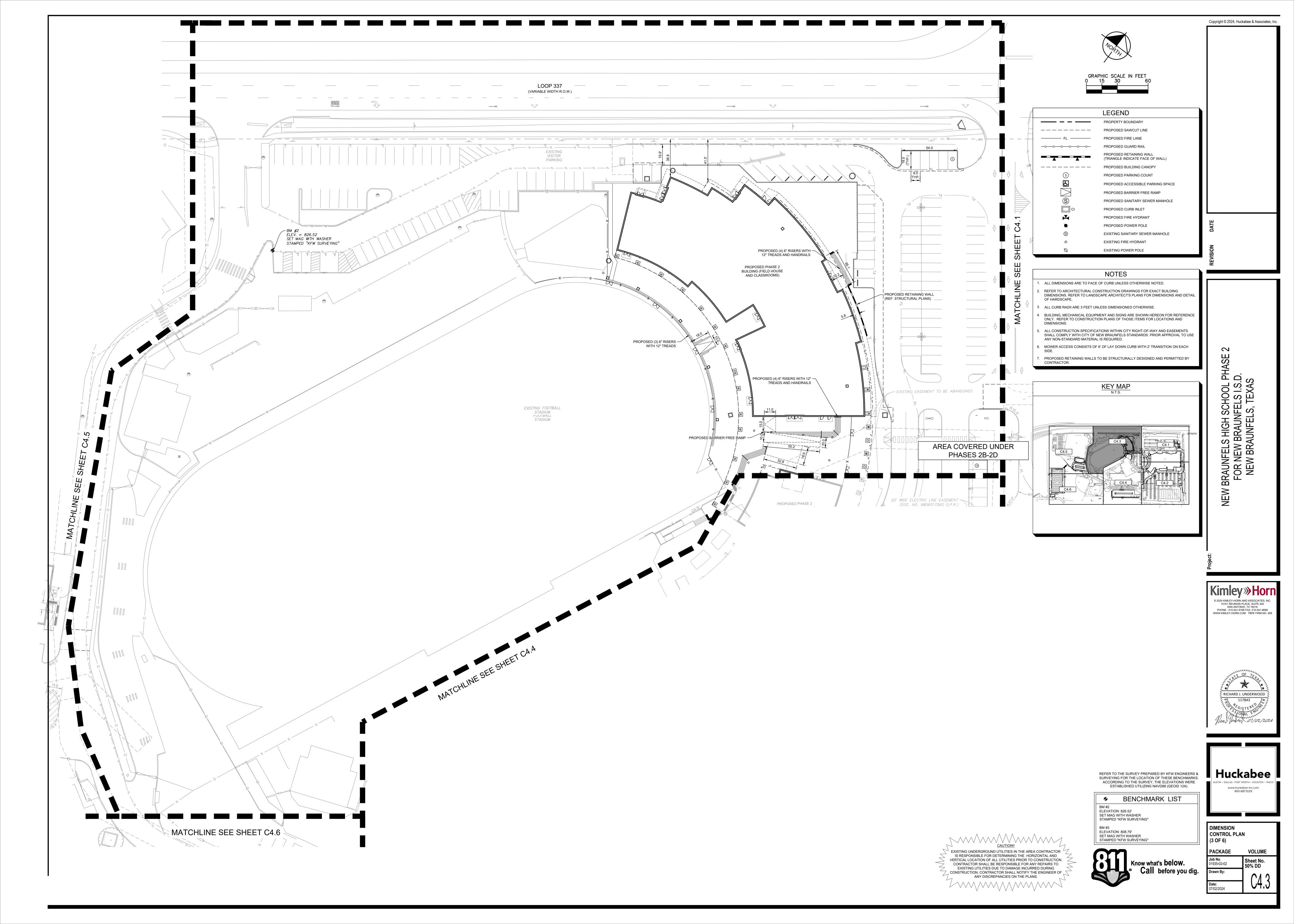
DIMENSION CONTROL PLAN (1 OF 6) PACKAGE

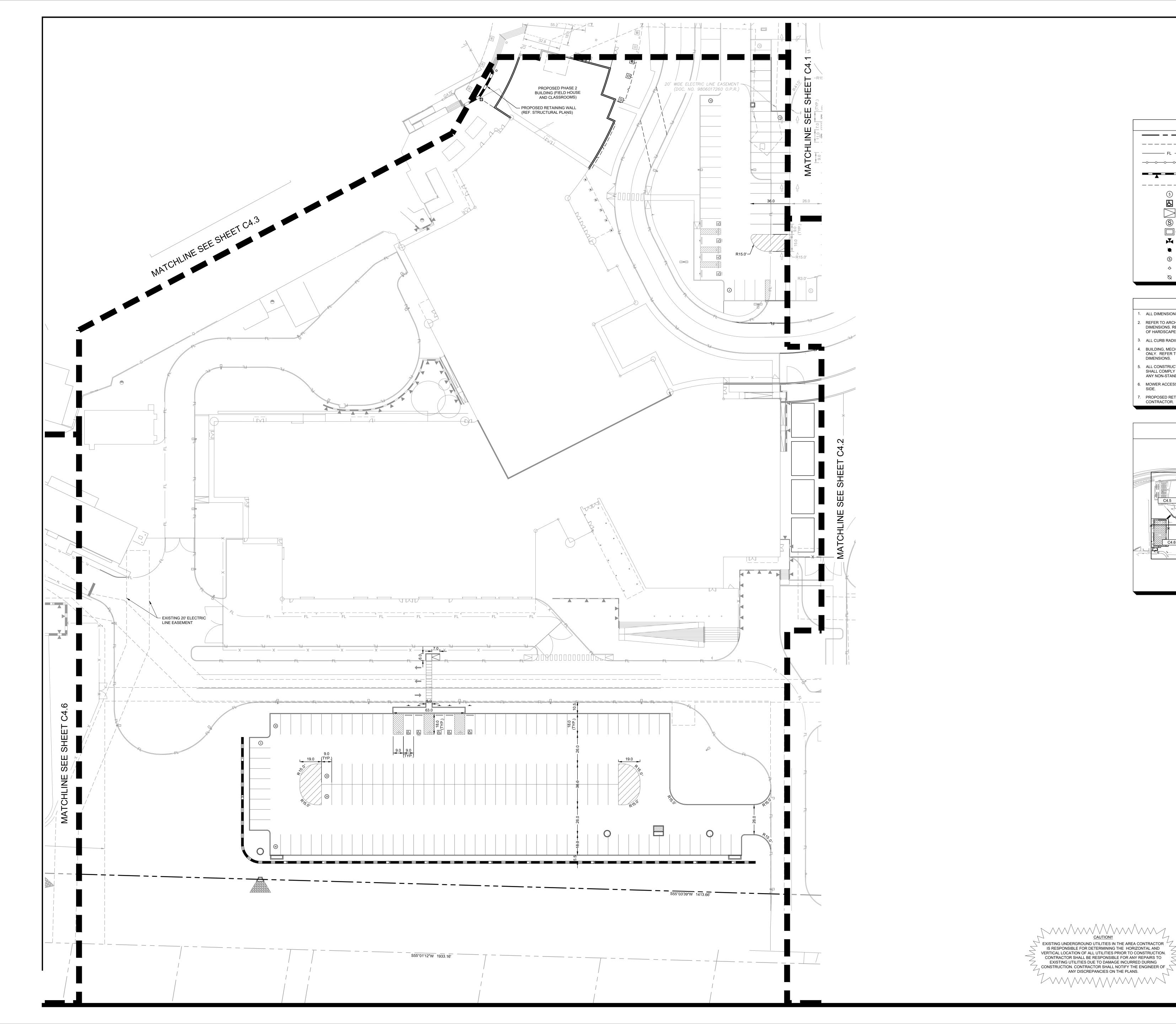


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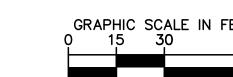


**Huckabee** 









LEGEND PROPERTY BOUNDARY ---- PROPOSED SAWCUT LINE PROPOSED FIRE LANE -o--o--o--o--o-- PROPOSED GUARD RAIL PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL) — — — — — PROPOSED BUILDING CANOPY PROPOSED PARKING COUNT PROPOSED ACCESSIBLE PARKING SPACE PROPOSED BARRIER FREE RAMP PROPOSED SANITARY SEWER MANHOLE PROPOSED CURB INLET PROPOSED FIRE HYDRANT PROPOSED POWER POLE EXISTING SANITARY SEWER MANHOLE EXISTING FIRE HYDRANT

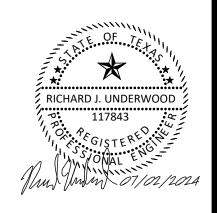
NOTES

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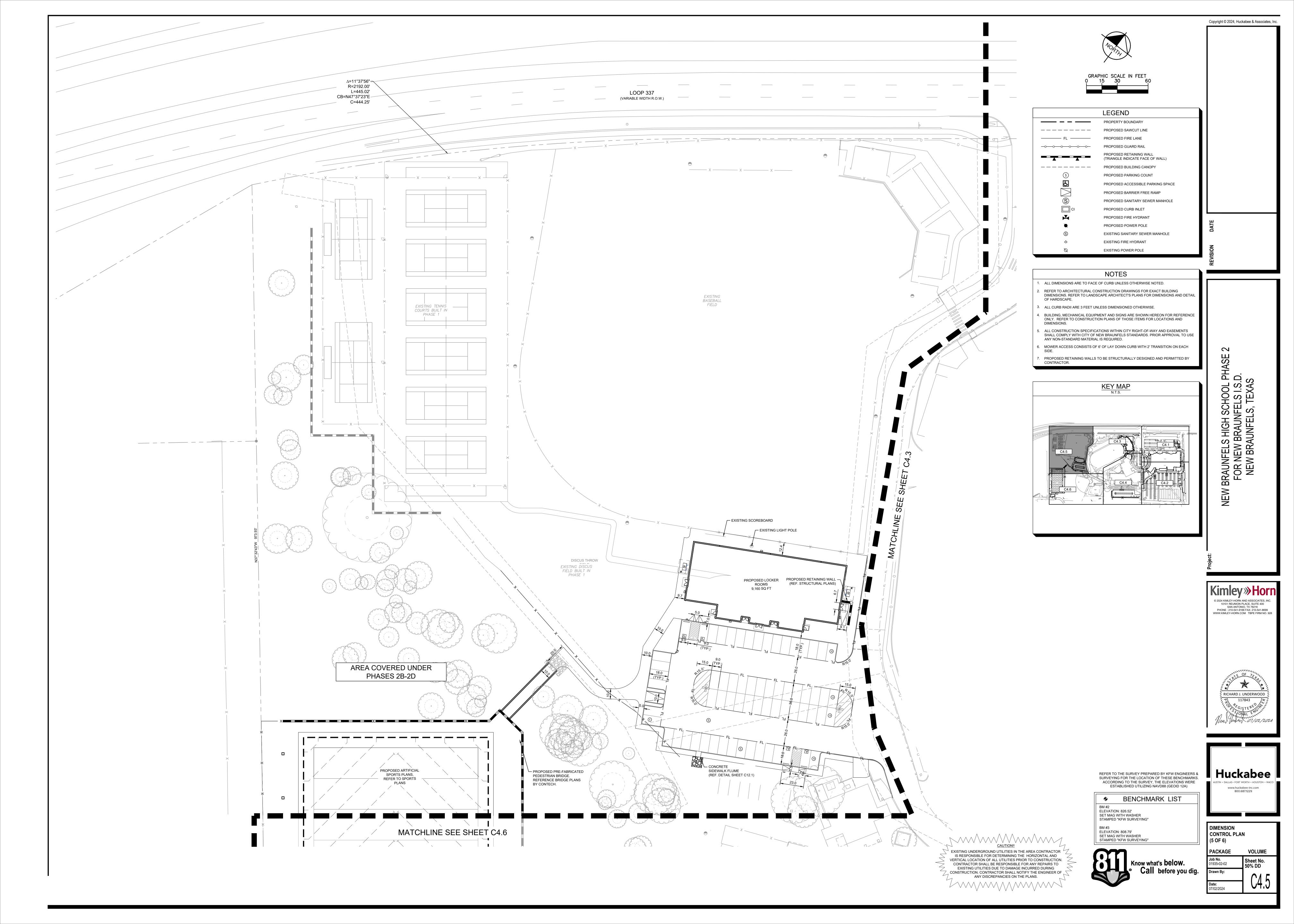
◆ BENCHMARK LIST ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING" ELEVATION: 808.79' SET MAG WITH WASHER STAMPED "KFW SURVEYING"

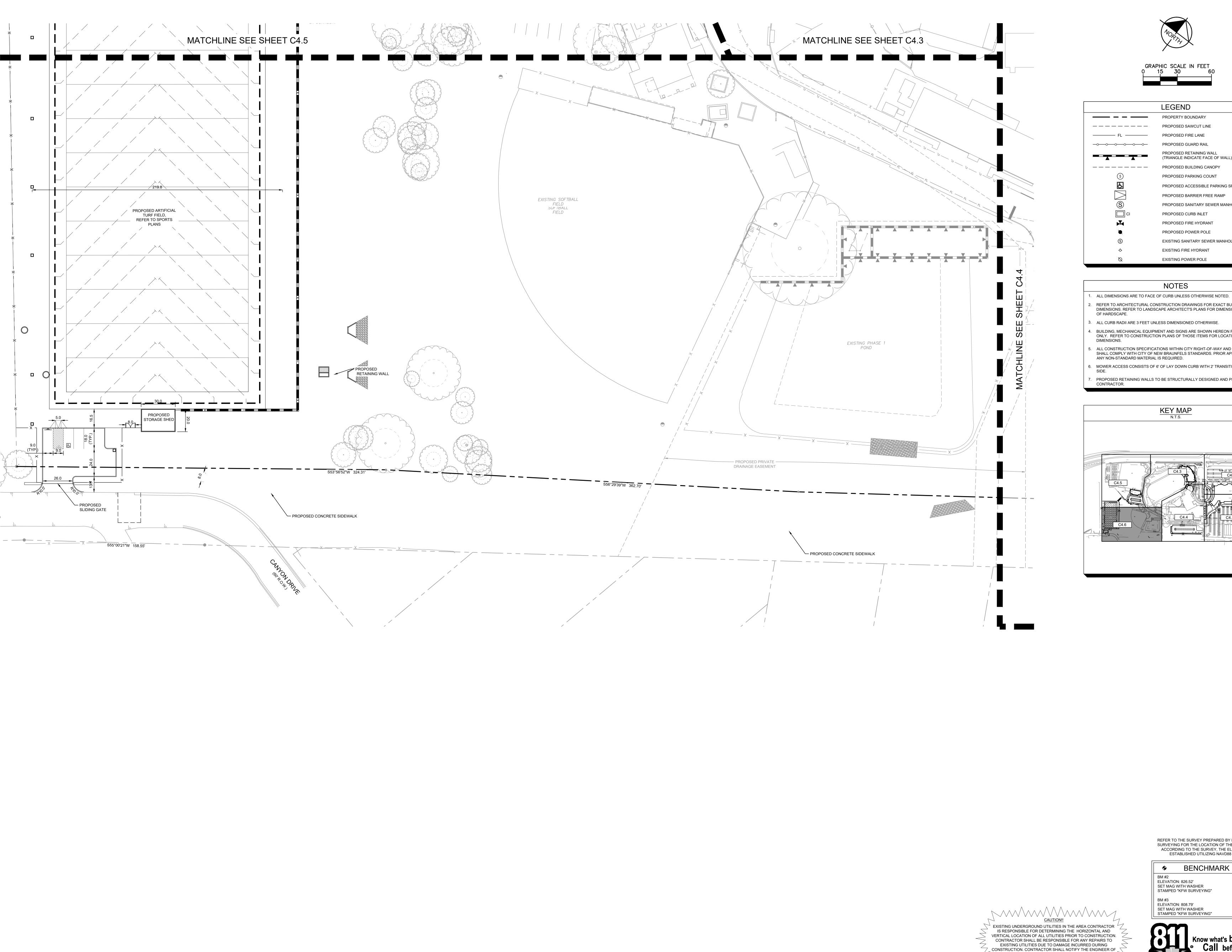


DIMENSION CONTROL PLAN (4 OF 6)

**PACKAGE** 

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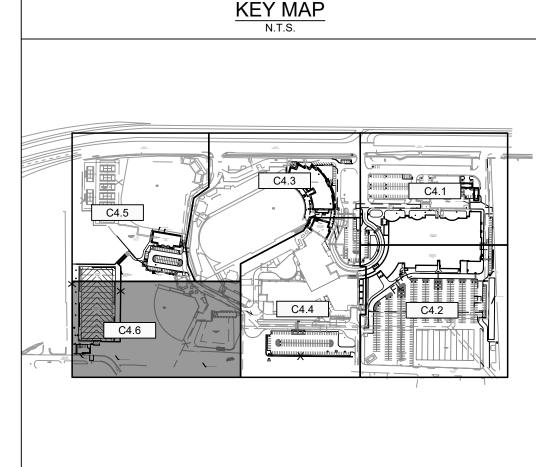




LEGEND PROPERTY BOUNDARY ---- PROPOSED SAWCUT LINE PROPOSED FIRE LANE PROPOSED GUARD RAIL PROPOSED RETAINING WALL (TRIANGLE INDICATE FACE OF WALL) PROPOSED BUILDING CANOPY PROPOSED PARKING COUNT PROPOSED ACCESSIBLE PARKING SPACE PROPOSED BARRIER FREE RAMP PROPOSED SANITARY SEWER MANHOLE PROPOSED CURB INLET PROPOSED FIRE HYDRANT PROPOSED POWER POLE EXISTING SANITARY SEWER MANHOLE

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ANY DISCREPANCIES ON THE PLANS.

Know what's below.
Call before you dig.

DIMENSION CONTROL PLAN (6 OF 6)

PACKAGE **VOLUME** 

**Huckabee** 

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# Water Pollution Abatement Plan Application

**Texas Commission on Environmental Quality** 

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

## Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Water Pollution Abatement Plan Application Form** is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

iew and executive director approval. The form was prepared by.
nt Name of Customer/Agent:
e:
nature of Customer/Agent:   Mullimon State Control of Customer (Agent:  Sulated Entity Name: Additions & Renovations to New Braunfels Highschool for New Braunfels I.S.D.  Phase 2  Phase 2  Pagulated Entity Information
The type of project is:
Residential: Number of Lots: Residential: Number of Living Unit Equivalents:
☐ Commercial ☐ Industrial
Other:
Total site acreage (size of property):
Estimated projected population:
The amount and type of impervious cover expected after construction are shown below:

**Table 1 - Impervious Cover Table** 

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops		÷ 43,560 =	
Parking		÷ 43,560 =	
Other paved surfaces		÷ 43,560 =	
Total Impervious Cover		÷ 43,560 =	

	surfaces		÷ 43,560 =		
	Total Impervious Cover		÷ 43,560 =		
	Total Impervious Cove	er ÷ Total Acrea	ge X 100 =	<u>%</u>	Impervious Cover
5.		ctors Affecting Surface affect surface water an d.	-		•
6.	Only inert material	s as defined by 30 TAC	§330.2 will be used	as fill	l material.
F	or Road Projec	ts Only			
Со	mplete questions 7 - 12	2 if this application is e	xclusively for a road	d proj	ect.
7.	Type of project:				
	City thoroughfare of	t. ds built to county speci or roads to be dedicated iding access to private	d to a municipality.		
8.	Type of pavement or r	oad surface to be used	:		
	Concrete Asphaltic concrete Other:	pavement			
9.	Length of Right of Way	/ (R.O.W.): feet.			
	Width of R.O.W.: Ft <sup>2</sup> ÷ 43		acres.		
10.	. Length of pavement a	rea: feet.			
	· · · · · · · · · · · · · · · · · · ·	ea: feet. ,560 Ft²/Acre = a acres ÷ R.O.W. area		%	6 impervious cover.
11.	. A rest stop will be	included in this project			
	A rest stop will not	be included in this pro	ject.		

TCEQ Executive Direct roads/adding shoulden	tor. Modifications to exis	that do not require approval from the sting roadways such as widening ne-half (1/2) the width of one (1) existing
Stormwater to be	generated by t	he Proposed Project
volume (quantity) an occur from the propo quality and quantity a	d character (quality) of tlosed project is attached. are based on the area an	rmwater. A detailed description of the ne stormwater runoff which is expected to The estimates of stormwater runoff d type of impervious cover. Include the struction and post-construction conditions
Wastewater to be	generated by t	the Proposed Project
14. The character and volum	e of wastewater is show	n below:
% Domestic % Industrial % Commingled TOTAL gallons/day		Gallons/day Gallons/day Gallons/day
15. Wastewater will be dispo	osed of by:	
On-Site Sewage Facili	ty (OSSF/Septic Tank):	
will be used to tre licensing authorit the land is suitable the requirements relating to On-site Each lot in this presize. The system	eat and dispose of the way's (authorized agent) wr le for the use of private so for on-site sewage facili e Sewage Facilities. oject/development is at l will be designed by a lice	thorized Agent. An on-site sewage facility astewater from this site. The appropriate ritten approval is attached. It states that ewage facilities and will meet or exceed ties as specified under 30 TAC Chapter 285 least one (1) acre (43,560 square feet) in ensed professional engineer or registered ller in compliance with 30 TAC Chapter
Sewage Collection Sy	stem (Sewer Lines):	
to an existing SCS	i. Terals from the wastewat	er generating facilities will be connected er generating facilities will be connected
The SCS was subn	iously submitted on nitted with this application Ibmitted at a later date. To to Executive Director app	The owner is aware that the SCS may not

The sewage collection system will convey the wastewater to the North Kuehler Treatment Plant. The treatment facility is:
Existing. Proposed.
16. All private service laterals will be inspected as required in 30 TAC §213.5.
Site Plan Requirements
Items 17 – 28 must be included on the Site Plan.
17. $\square$ The Site Plan must have a minimum scale of 1" = 400'.
Site Plan Scale: 1" ='.
18. 100-year floodplain boundaries:
<ul> <li>Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.</li> <li>No part of the project site is located within the 100-year floodplain.</li> <li>The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s):</li> </ul>
19. The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, open space, etc. are shown on the plan.
The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, open space, etc. are shown on the site plan.
20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):
There are (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)
<ul> <li>The wells are not in use and have been properly abandoned.</li> <li>The wells are not in use and will be properly abandoned.</li> <li>The wells are in use and comply with 16 TAC §76.</li> </ul>
There are no wells or test holes of any kind known to exist on the project site.
21. Geologic or manmade features which are on the site:
<ul> <li>All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.</li> <li>No sensitive geologic or manmade features were identified in the Geologic Assessment.</li> <li>Attachment D - Exception to the Required Geologic Assessment. A request and</li> </ul>
justification for an exception to a nortion of the Geologic Assessment is attached

22	The drainage patterns and approximate slopes anticipated after major grading activities
23. 🗌	Areas of soil disturbance and areas which will not be disturbed.
24.	Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
25. 🗌	Locations where soil stabilization practices are expected to occur.
26. 🗌	Surface waters (including wetlands).
	N/A
27. 🗌	Locations where stormwater discharges to surface water or sensitive features are to occur.
	There will be no discharges to surface water or sensitive features.
28. 🗌	Legal boundaries of the site are shown.
Adm	ninistrative Information
29. 🗌	Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
30. 🗌	Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

## Attachment A – Factors Affecting Surface Water Quality

Factors that could affect the quality of the water discharges for ultimate land use are:

- Oil, grease, and fuel from vehicle drippings;
- Dirt from vehicles;
- Trash and litter;
- Hydrocarbons from asphalt paving operations.

## <u>Attachment B – Volume and Character of Stormwater</u>

While the impervious cover on the site increases, an underground detention system, with water quality controls, has been designed to reduce the peak flows from the site to below the existing conditions at the time of construction. The weighted curve number for the proposed improvements would be 96 after development. The curve number was obtained from the City of New Braunfels Drainage and Erosion Control Design manual.

## **Temporary Stormwater Section**

**Texas Commission on Environmental Quality** 

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

## Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print I	Name of Customer/Agent:
Date:	
Signat	ture of Customer/Agent:
	ated Entity Name: <u>Additions</u> & Renovations to New Braunfels Highschool for New Braunfels I.S.D. Phase 2 ject Information
Pot	ential Sources of Contamination
-	ples: Fuel storage and use, chemical storage and use, use of asphaltic products, ruction vehicles tracking onto public roads, and existing solid waste.
	uels for construction equipment and hazardous substances which will be used during onstruction:
	The following fuels and/or hazardous substances will be stored on the site:
	These fuels and/or hazardous substances will be stored in:
	Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

<ul> <li>Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.</li> <li>Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.</li> </ul>
Fuels and hazardous substances will not be stored on the site.
<ol> <li>Attachment A - Spill Response Actions. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.</li> </ol>
3. Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
4. Attachment B - Potential Sources of Contamination. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.
Sequence of Construction
5. Attachment C - Sequence of Major Activities. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
<ul> <li>For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.</li> <li>For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.</li> </ul>
6. Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project:
Temporary Best Management Practices (TBMPs)
Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.
7. Attachment D – Temporary Best Management Practices and Measures. TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

	A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
	<ul> <li>A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.</li> <li>□ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.</li> <li>□ A description of how, to the maximum extent practicable, BMPs and measures will</li> </ul>
	maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
8. [	The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
	Attachment E - Request to Temporarily Seal a Feature. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
	There will be no temporary sealing of naturally-occurring sensitive features on the site.
9. [	Attachment F - Structural Practices. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10. [	Attachment G - Drainage Area Map. A drainage area map supporting the following requirements is attached:
	<ul> <li>For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.</li> <li>For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.</li> </ul>
	For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
	There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

	☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
11.	Attachment H - Temporary Sediment Pond(s) Plans and Calculations. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
	N/A
12.	<b>Attachment I - Inspection and Maintenance for BMPs.</b> A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13.	All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
	If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. 🗌	Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16.	Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).
Soil	Stabilization Practices
mulchii	les: establishment of temporary vegetation, establishment of permanent vegetation, ng, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or vation of mature vegetation.
17. 🗌	Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices. A schedule of the interim and permanent soil stabilization practices for the site is attached.

18	Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
19.	Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.
Adn	ninistrative Information
20.	All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
21.	If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.
22.	Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

## **ATTACHMENT A - Spill Report Actions**

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of the materials and substances described above to storm water runoff.

#### Education

- (1) Be aware that different materials pollute in different amounts. Make sure that each employee knows what a "significant spill" is for each material they use, and what is the appropriate response for "significant" and "insignificant" spills. Employees should also be aware of when spill must be reported to the TCEQ. Information available in 30 TAC 327.4 and 40 CFR 302.4.
- (2) Educate employees and subcontractors on potential danger to humans and the environment from spills and leaks.
- (3) Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).
- (4) Establish a continuing education program to indoctrinate new employees.
- (5) Have contractor's superintendent or representative oversee and enforce proper spill prevention and control measures.

#### **General Measures**

- (1) To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110, 117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- (2) Store hazardous materials and wastes in covered containers and protect from vandalism.
- (3) Place a stockpile of spill cleanup materials where it will be readily accessible.
- (4) Train employees in spill prevention and cleanup.
- (5) Designate responsible individuals to oversee and enforce control measures.
- (6) Spills should be covered and protected from stormwater run-on during rainfall to the extent that it doesn't compromise cleanup activities.
- (7) Do not bury or wash spills with water.
- (8) Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.

- (9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.
- (10) Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- (11) Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
- (12) Keep waste storage areas clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, cover, and liners should be repaired or replaced as needed to maintain proper function.

### Cleanup

- (1) Clean up leaks and spills immediately.
- (2) Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.
- (3) Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

### **Minor Spills**

- (1) Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.
- (2) Use absorbent materials on small spills rather than hosing down or burying the spill.
- (3) Absorbent materials should be promptly removed and disposed of properly.
- (4) Follow the practice below for a minor spill:
- (5) Contain the spread of the spill.
- (6) Recover spilled materials.
- (7) Clean the contaminated area and properly dispose of contaminated materials.

**Semi-Significant Spills** – can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities. Spills should be cleaned up immediately:

- (1) Contain spread of the spill.
- (2) Notify the project foreman immediately.
- (3) If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.
- (4) If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
- (5) If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

### Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

- (1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
- (2) For spills of federal reportable quantities, in conformance with the requirements on 40 CFR parts 110, 119, and 302, the contractor should notify the National Response Center at (800) 424-8802.
- (3) Notification should first be made by telephone and followed up with a written report.
- (4) The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
- (5) Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

## **ATTACHMENT B - Potential Sources of Contamination**

Sources of contamination during construction that could potentially affect surface and groundwater quality are as follows:

Potential Source	Preventative Measure
Asphalt Products used on this project	After placement of Asphalt, emulsion or coatings, the contractor will be responsible for immediate cleanup should an unexpected rain occur. For the duration of the asphalt product curing time, the contractor will maintain standby personnel and equipment to contain any asphalt wash-off should an unexpected rain occur. The Contractor will be instructed not to place asphalt products on the ground within 48 hours of a forecasted rain event.
Oil, grease, fuel and Hydraulic fluid drippings	Vehicle maintenance when possible will be performed within the construction staging area.
Miscellaneous trash and litter	Trash containers will be placed throughout the site to encourage proper trash disposal.
Construction Debris	Construction debris will be monitored daily by contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addresses on a case-by-case basis

## **ATTACHMENT C – Sequence of Major Events**

The installation of erosion and sedimentation controls shall occur prior to any excavation of materials or major disturbances on the site.

The sequence of major construction activities will be as follows. Approximate acreage to be disturbed is listed in parentheses next to each activity.

- 1. Install all temporary erosion controls. (24.24 acres)
- 2. Clear and grub strip topsoil. (15.0 acres)
- 3. Grading (15.0 acres)
- 4. Rough Cut Drive Aisles and building pads (10.0 acres)
- 5. Install wet/dry utilities (4.0 acres)
- 6. Install paving improvements (8.0 acres)
- 7. Complete restoration of site vegetation. (3.0 acres)
- 8. Remove and dispose of temporary erosion controls when restoration has been accepted.

Maximum total construction time is not expected to exceed 12 months.

## ATTACHMENT D – Temporary Best Management Practices and Measures

Also refer to the TCEQ Site Plan for details of TBMP's.

Silt fencing will be installed prior to the commencement of construction to prohibit runoff of sediment. The silt fence shall be placed perpendicular to direction of flow, where feasible, to maximize efficiency. If there are any, potentially sensitive features, a silt fence will surround the site as specified by TCEQ Guidance Manual Chapter 5.

Bagged gravel inlet filters will be used and maintained in a condition to prevent runoff of sediment from flowing into drains during construction.

Stabilized construction entrance will be installed prior to the commencement of construction and will be used and maintained in a condition that will prevent tracking or flowing of sediment onto public roadway.

- a.) Silt fence will not be placed on the upstream side of the site because there will be no stormwater that originates upgradient of the site. All upgradient stormwater is captured in onsite storm water system that discharges to an existing 24" stub. All storm water is discharged to an existing 5'X3' SBC.
- b.) Silt fencing and bagged gravel inlet filters will be used on-site to filter out pollutants and restrict sediment from leaving the site. Silt fencing will be placed in existing and proposed channels and downstream of flow on site. Bagged gravel inlet filters will be placed around proposed inlets to capture any suspended solids.
- c.) Temporary measures are intended to provide a method of slowing the flow of runoff from the construction site in order to allow sediment and suspended solids to settle out of the runoff. Silt Fencing, bagged gravel inlet filters and construction entrance measures prevent sediment and pollution by filtering and routing water. These filtered pollutants are then removed and prevented from entering surface streams, sensitive features, or the aquifer.
- d.) BMP measures utilized in this plan are intended to allow stormwater to continue downstream after passing through the BMP's. Silt fencing and bagged gravel inlet filters will be placed to intercept and detain water with sediment or pollution from entering or leaving the site to any unprotected areas. The BMP's will filter out sediment and pollution while allowing filtered water to flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
- e.) Sediment must be removed from sediment traps and sedimentation ponds no later than the time that design capacity has been reduced by 50%. For perimeter controls such as silt fences, berms, etc., the trapped sediment must be removed before it reaches 50% of the above-ground height.

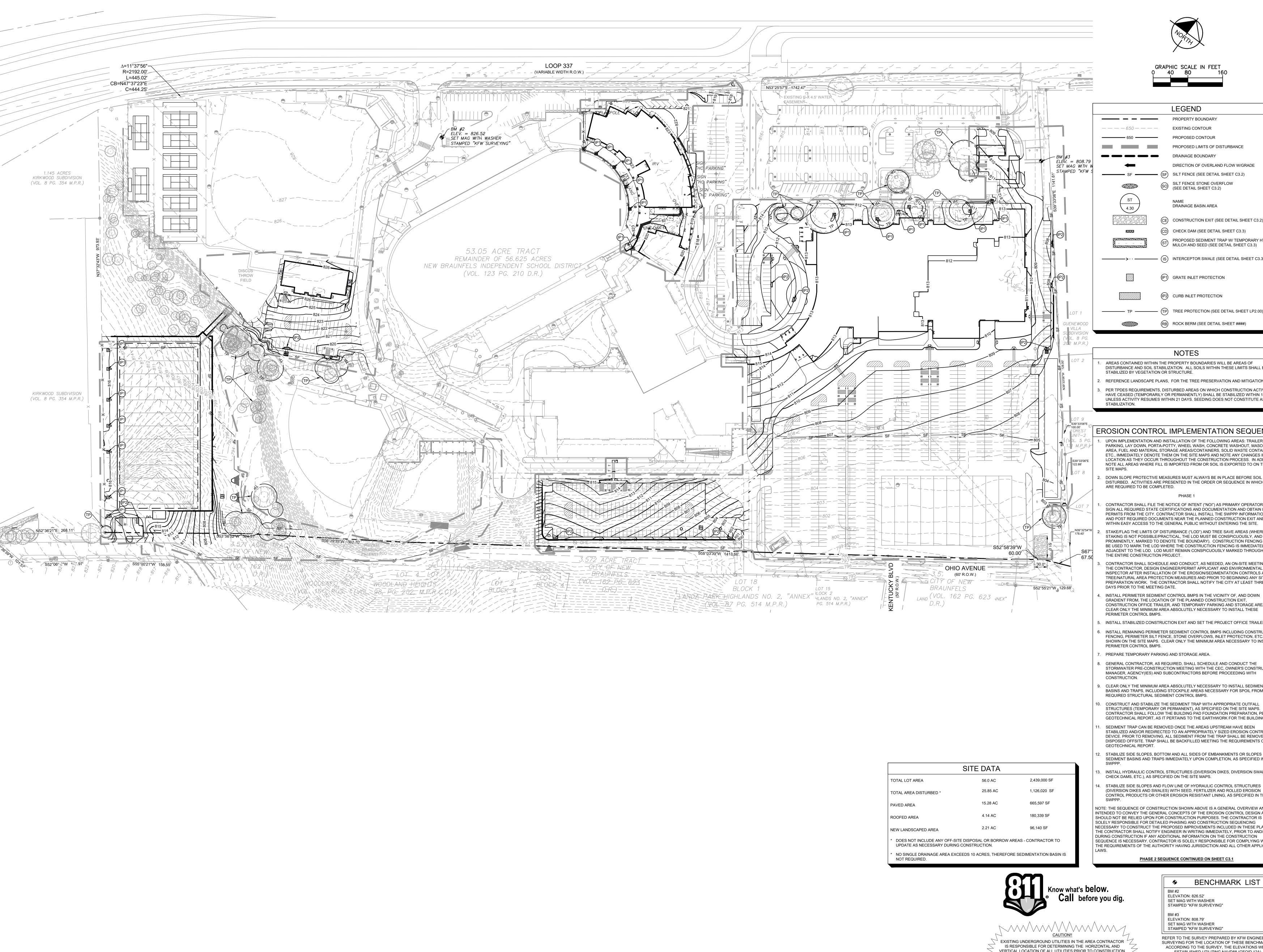
## **APPENDIX**

#### **Vehicle and Equipment Maintenance**

- (1) If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the runon of stormwater and runoff of spills.
- (2) Regularly inspect onsite vehicles and equipment for leaks and repair immediately
- (3) Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite
- (4) Always use secondary containment, such as drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- (5) Place drip pans or absorbent materials under paving equipment when not in use.
- (6) Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- (7) Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- (8) Oil filters dispose of in trashcans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about oil filters.
- (9) Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think the acid had drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

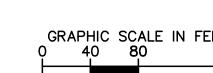
#### **Vehicle and Equipment Fueling**

- (1) If fueling must occur on site, use designated areas, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.
- (2) Discourage "topping off" of fuel tanks.
- (3) Always use secondary containment, such as a drain pan, when fueling to catch spills/leaks.





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LEGEND

PROPERTY BOUNDARY

EXISTING CONTOUR PROPOSED LIMITS OF DISTURBANCE DRAINAGE BOUNDARY DIRECTION OF OVERLAND FLOW W/GRADE

(SF) SILT FENCE (SEE DETAIL SHEET C3.2) SO SILT FENCE STONE OVERFLOW (SEE DETAIL SHEET C3.2) DRAINAGE BASIN AREA

CE) CONSTRUCTION EXIT (SEE DETAIL SHEET C3.2) (CD) CHECK DAM (SEE DETAIL SHEET C3.3) PROPOSED SEDIMENT TRAP W/ TEMPORARY HYDRO MULCH AND SEED (SEE DETAIL SHEET C3.3)

(IS) INTERCEPTOR SWALE (SEE DETAIL SHEET C3.3) (P1) GRATE INLET PROTECTION

> - (TP) TREE PROTECTION (SEE DETAIL SHEET LP2.00) (RB) ROCK BERM (SEE DETAIL SHEET ####)

NOTES

AREAS CONTAINED WITHIN THE PROPERTY BOUNDARIES WILL BE AREAS OF DISTURBANCE AND SOIL STABILIZATION. ALL SOILS WITHIN THESE LIMITS SHALL BE STABILIZED BY VEGETATION OR STRUCTURE.

PER TPDES REQUIREMENTS. DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAY UNLESS ACTIVITY RESUMES WITHIN 21 DAYS. SEEDING DOES NOT CONSTITUTE AS

## EROSION CONTROL IMPLEMENTATION SEQUENCE

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, MASON'S AREA, FUEL AND MATERIAL STORAGE AREAS/CONTAINERS, SOLID WASTE CONTAINERS ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION NOTE ALL AREAS WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE

DOWN SLOPE PROTECTIVE MEASURES MUST ALWAYS BE IN PLACE BEFORE SOIL IS DISTURBED. ACTIVITIES ARE PRESENTED IN THE ORDER OR SEQUENCE IN WHICH THEY ARE REQUIRED TO BE COMPLETED.

CONTRACTOR SHALL FILE THE NOTICE OF INTENT ("NOI") AS PRIMARY OPERATOR AND SIGN ALL REQUIRED STATE CERTIFICATIONS AND DOCUMENTATION AND OBTAIN LOCAL PERMITS FROM THE CITY. CONTRACTOR SHALL INSTALL THE SWPPP INFORMATION SIG AND POST REQUIRED DOCUMENTS NEAR THE PLANNED CONSTRUCTION EXIT AND WITHIN EASY ACCESS TO THE GENERAL PUBLIC WITHOUT ENTERING THE SITE. STAKE/FLAG THE LIMITS OF DISTURBANCE ("LOD") AND TREE SAVE AREAS (WHERE STAKING IS NOT POSSIBLE/PRACTICAL. THE LOD MUST BE CONSPICUOUSLY. AND

PROMINENTLY, MARKED TO DENOTE THE BOUNDARY). CONSTRUCTION FENCING MAY BE USED TO MARK THE LOD WHERE THE CONSTRUCTION FENCING IS IMMEDIATELY ADJACENT TO THE LOD. LOD MUST REMAIN CONSPICUOUSLY MARKED THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT. CONTRACTOR SHALL SCHEDULE AND CONDUCT, AS NEEDED, AN ON-SITE MEETING WIT THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL

INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST THREE (3) DAYS PRIOR TO THE MEETING DATE.

INSTALL PERIMETER SEDIMENT CONTROL BMPS IN THE VICINITY OF, AND DOWN GRADIENT FROM, THE LOCATION OF THE PLANNED CONSTRUCTION EXIT, CONSTRUCTION OFFICE TRAILER, AND TEMPORARY PARKING AND STORAGE AREAS. CLEAR ONLY THE MINIMUM AREA ABSOLUTELY NECESSARY TO INSTALL THESE

INSTALL STABILIZED CONSTRUCTION EXIT AND SET THE PROJECT OFFICE TRAILER. 6. INSTALL REMAINING PERIMETER SEDIMENT CONTROL BMPS INCLUDING CONSTRUCTION FENCING, PERIMETER SILT FENCE, STONE OVERFLOWS, INLET PROTECTION, ETC., AS SHOWN ON THE SITE MAPS. CLEAR ONLY THE MINIMUM AREA NECESSARY TO INSTALL

PREPARE TEMPORARY PARKING AND STORAGE AREA. 8. GENERAL CONTRACTOR, AS REQUIRED, SHALL SCHEDULE AND CONDUCT THE STORMWATER PRE-CONSTRUCTION MEETING WITH THE CEC, OWNER'S CONSTRUCTION

O. CLEAR ONLY THE MINIMUM AREA ABSOLUTELY NECESSARY TO INSTALL SEDIMENT BASINS AND TRAPS, INCLUDING STOCKPILE AREAS NECESSARY FOR SPOIL FROM THESI

10. CONSTRUCT AND STABILIZE THE SEDIMENT TRAP WITH APPROPRIATE OUTFALL STRUCTURES (TEMPORARY OR PERMANENT). AS SPECIFIED ON THE SITE MAPS. CONTRACTOR SHALL FOLLOW THE BUILDING PAD FOUNDATION PREPARATION, PER THI GEOTECHNICAL REPORT, AS IT PERTAINS TO THE EARTHWORK FOR THE BUILDING PAD. SEDIMENT TRAP CAN BE REMOVED ONCE THE AREAS UPSTREAM HAVE BEEN STABILIZED AND/OR REDIRECTED TO AN APPROPRIATELY SIZED EROSION CONTROL

DEVICE. PRIOR TO REMOVING, ALL SEDIMENT FROM THE TRAP SHALL BE REMOVED AND DISPOSED OFFSITE. TRAP SHALL BE BACKFILLED MEETING THE REQUIREMENTS OF THE STABILIZE SIDE SLOPES, BOTTOM AND ALL SIDES OF EMBANKMENTS OR SLOPES OF TH

SEDIMENT BASINS AND TRAPS IMMEDIATELY UPON COMPLETION, AS SPECIFIED IN THE

INSTALL HYDRAULIC CONTROL STRUCTURES (DIVERSION DIKES, DIVERSION SWALES, CHECK DAMS, ETC.), AS SPECIFIED ON THE SITE MAPS. STABILIZE SIDE SLOPES AND FLOW LINE OF HYDRAULIC CONTROL STRUCTURES (DIVERSION DIKES AND SWALES) WITH SEED, FERTILIZER AND ROLLED EROSION CONTROL PRODUCTS OR OTHER EROSION RESISTANT LINING, AS SPECIFIED IN THE

NOTE: THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE

PHASE 2 SEQUENCE CONTINUED ON SHEET C3.1

VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING  $_{\downarrow}$  CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF  $_{\downarrow}^{-5}$ ANY DISCREPANCIES ON THE PLANS.

<b>\$</b>	BENCHMARK LIST
SET MAG	DN: 826.52' WITH WASHER D "KFW SURVEYING"
SET MAG	DN: 808.79' WITH WASHER D "KFW SURVEYING"

REFER TO THE SURVEY PREPARED BY KFW ENGINEERS & SURVEYING FOR THE LOCATION OF THESE BENCHMARKS. ACCORDING TO THE SURVEY, THE ELEVATIONS WERE ESTABLISHED UTILIZING NAVD88 (GEOID 12A)

Huckabee www.huckabee-inc.com 800.687.1229

RICHARD J. UNDERWOOD

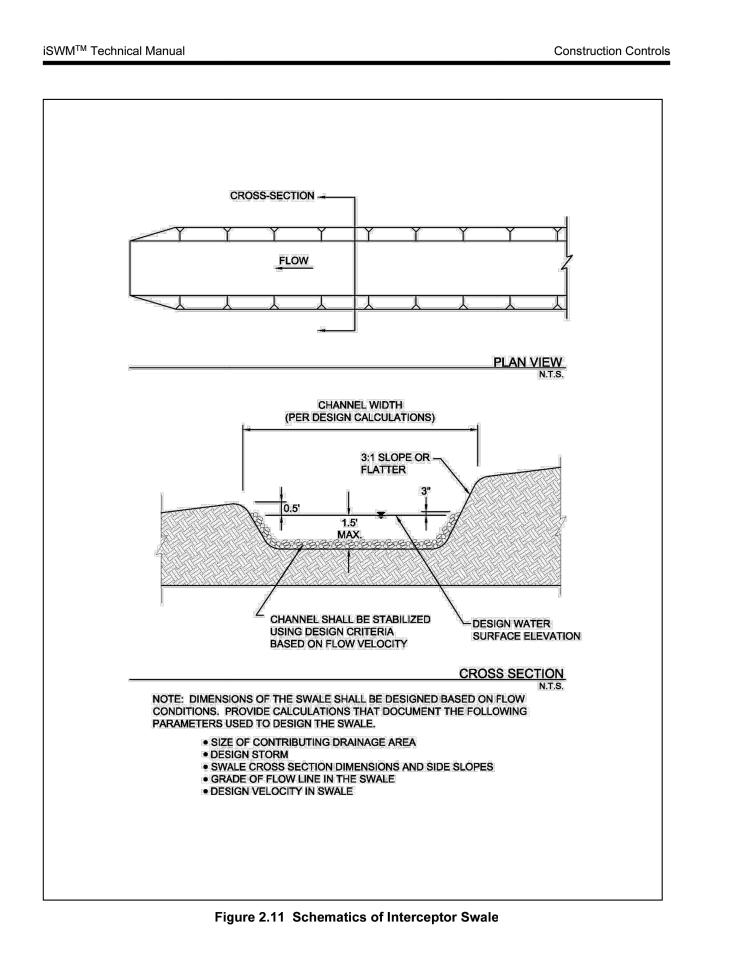
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WWW.KIMLEY-HORN.COM TBPE FIRM NO. 92

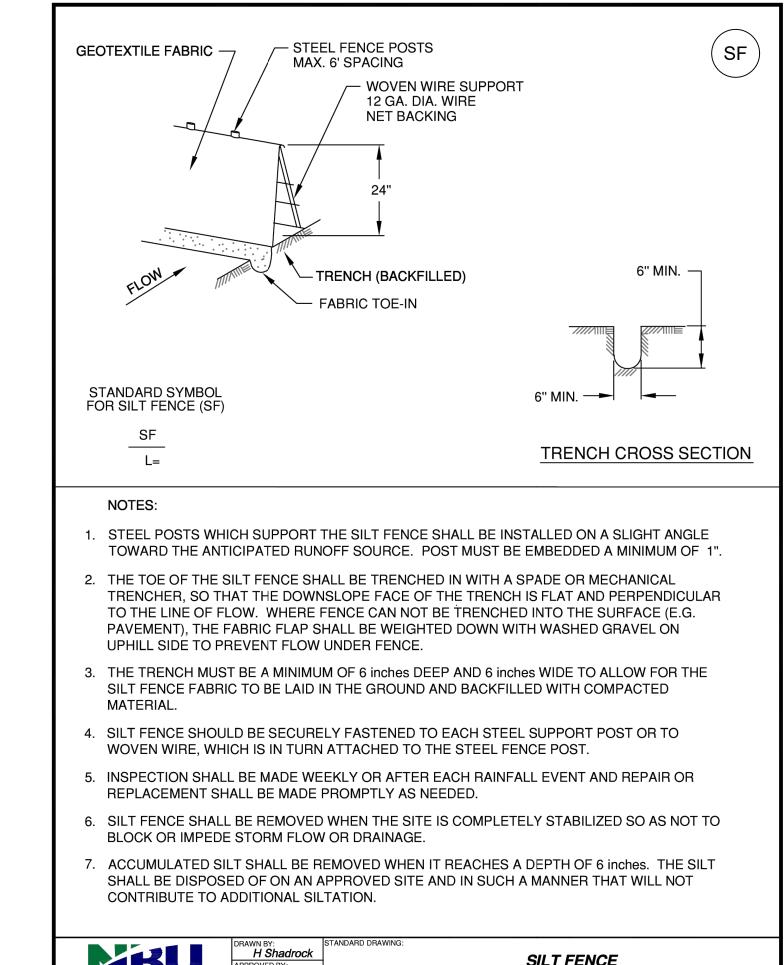
CONTROL PLAN PACKAGE **VOLUME** Sheet No. 50% DD

## **ATTACHMENT F - Structural Practices**

The structural practices that will be used to divert and store flows, and limit runoff discharge or pollutants will be the use of silt fences, inlet protection, and construction entrance stabilization.



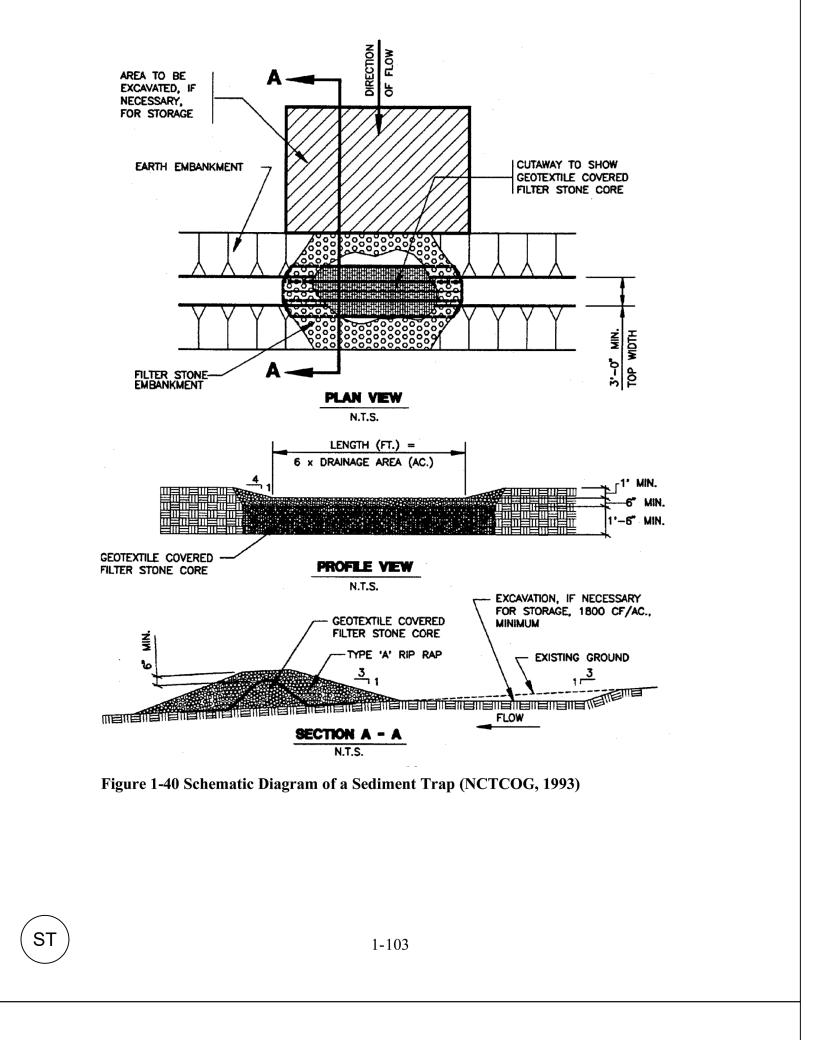
Interceptor Swale ( IS ) April 2010, Revised 9/2014

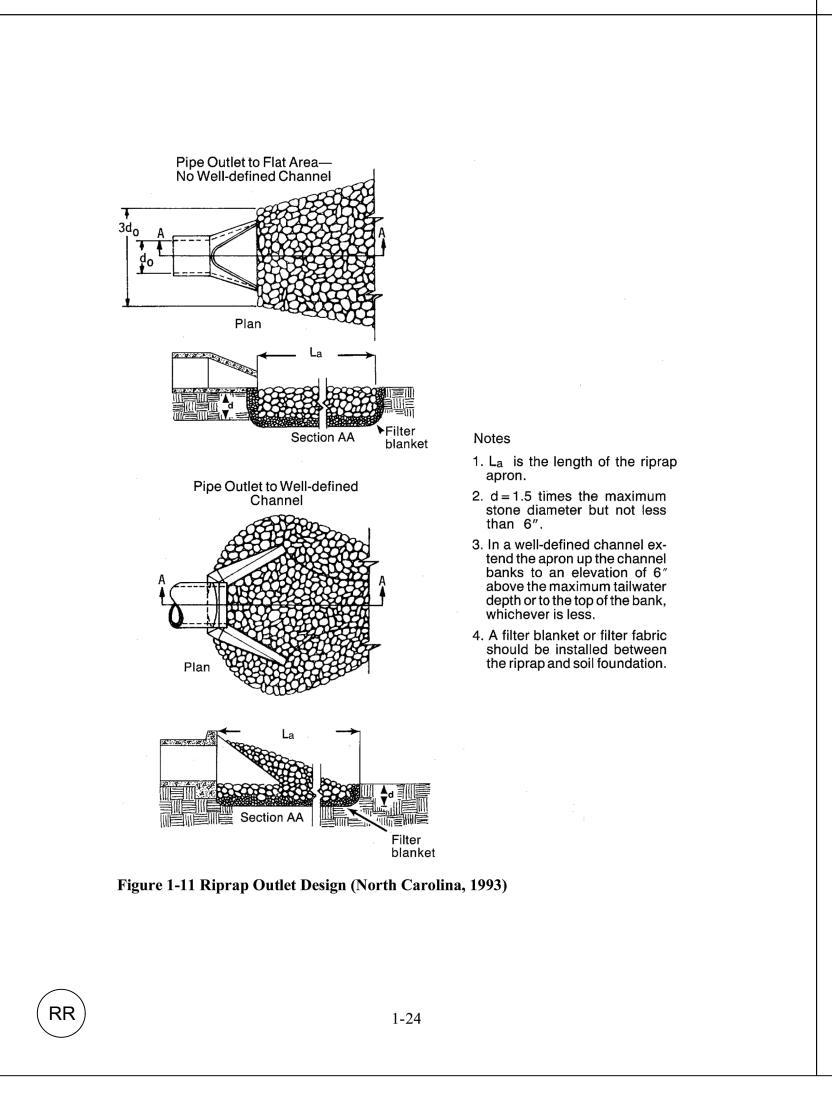


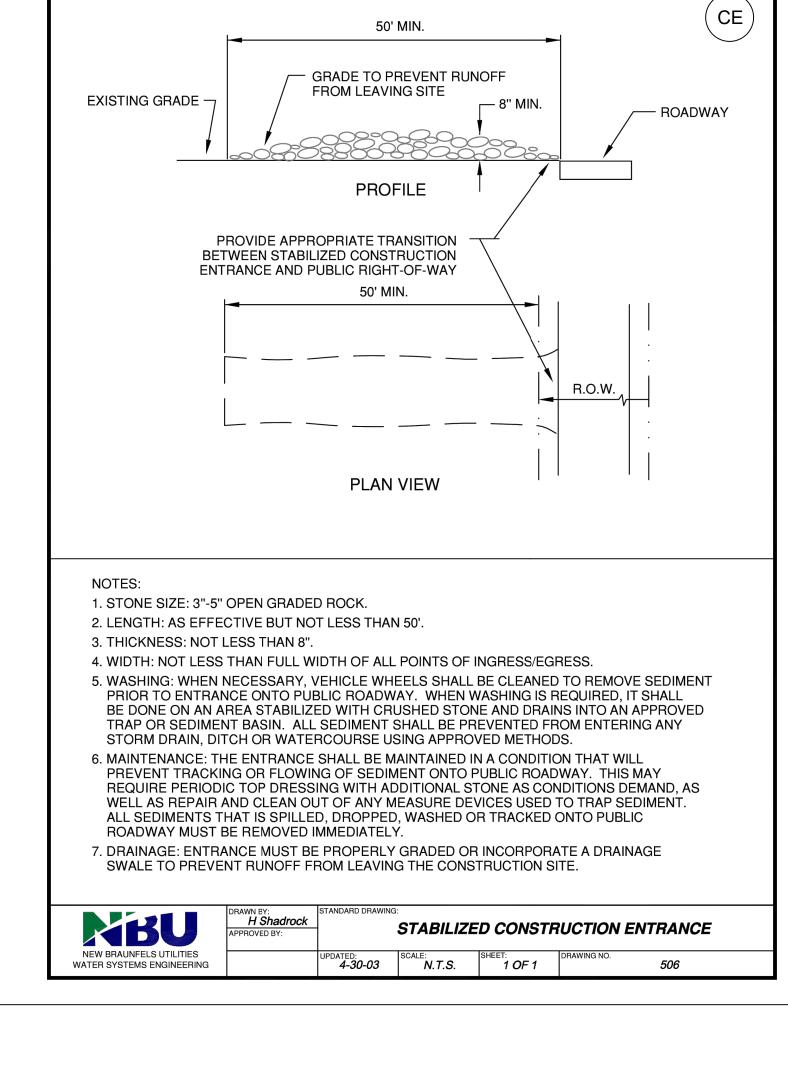
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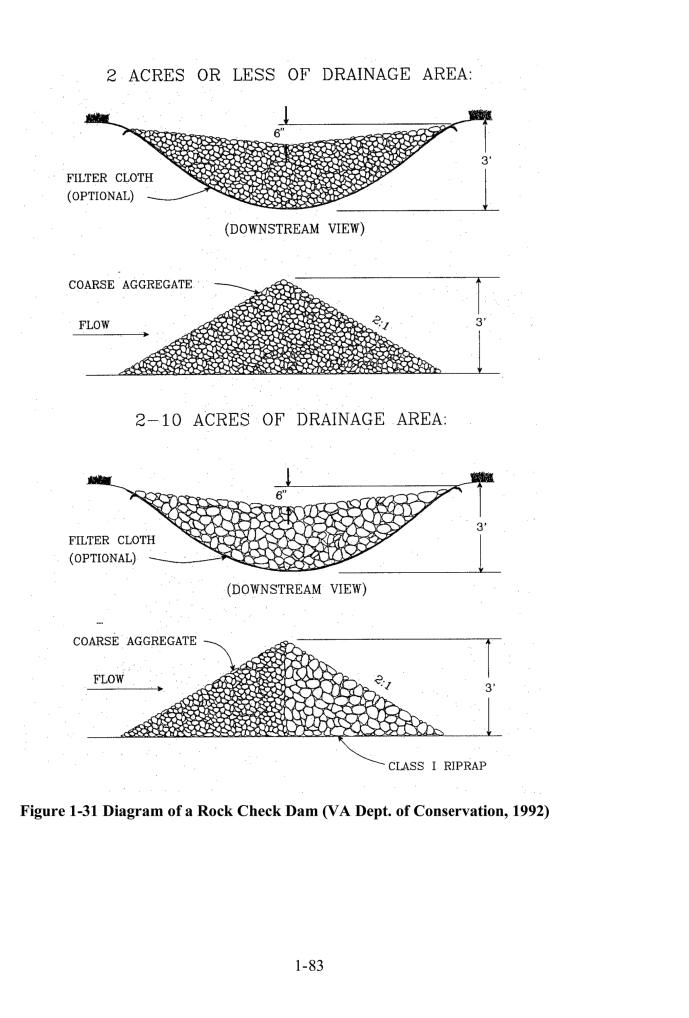
N.T.S.

1 OF 1









(CD)

SITE MAP - GENERAL NOTES

CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION,

MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.

CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.

B. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.

. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.

BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT

6. SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.

TEMPORARY EROSION CONTROL NOTES

CONTROL PLAN.

THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).

. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION

. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.

. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST THREE (3) DAYS PRIOR TO THE MEETING DATE.

. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST, OR ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE PLANNING AND DEVELOPMENT DEPARTMENT AND THE DRAINAGE UTILITY DEPARTMENT. MINOR CHANGES OR ADDITIONAL CONTROL MEASURES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO ADDITIONAL COST TO THE

. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.

PERMANENT EROSION CONTROL NOTES

ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW.

A. A MINIMUM OF FOUR (4) INCHES OF TOPSOIL SHALL BE PLACED IN ALL DRAINAGE CHANNELS (EXCEPT ROCK) AND BETWEEN THE CURB AND THE RIGHT-OF-WAY LINE.

B. THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS:

FERTILIZER SHALL BE A PELLETED OR GRANULAR SLOW RELEASE WITH

BROADCAST SEEDING:

FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH A COMBINATION OF 2 POUNDS PER 1000 SQUARE FEET OF UNHULLED BERMUDA AND 7 POUNDS PER 1000 SQUARE FOOT OF WINTER RYE WITH A

PURITY OF 95% WITH 90% GERMINATION. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 2 POUNDS PER 1000 SQUARE FEET WITH A PURITY OF 95% WITH 85% GERMINATION.

AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT THE RATE OF 1 POUND PER 1000 SQUARE FEET. MULCH TYPE USED SHALL BE HAY, STRAW OR MULCH APPLIED AT A

RATE OF 45 POUNDS PER 1000 SQUARE FEET.

HYDRAULIC SEEDING: FROM SEPTEMBER 15 TO MARCH 1. SEEDING SHALL BE WITH A

COMBINATION OF 1 POUND PER 1000 SQUARE FEET OF UNHULLED BERMUDA AND 7 POUNDS PER 1000 SQUARE FOOT OF WINTER RYE WITH A PURITY OF 95% WITH 90% GERMINATION.

FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 1 POUND PER 1000 SQUARE FEET WITH A PURITY OF 95% WITH 85% GERMINATION.

A. FERTILIZER SHALL BE A WATER SOLUBLE FERTILIZER WITH AN ANALYSIS OF 15-15-15 AT THE RATE OF 1.5 POUNDS PER 1000 SQUARE

MULCH TYPE USED SHALL BE HAY STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1000 SQUARE FEET, WITH SOIL TACKIFIER AT A RATE OF 1.4 POUNDS PER 1000 SQUARE FEET.

THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL. BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX (6) INCHES. THE IRRIGATION SHALL OCCUP AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS. RAINFALL OCCURRENCES OF 1/2 INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK.

RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.

WHEN REQUIRED, NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE ENVIRONMENTAL CRITERIA MANUAL.

SITE MAPS - SITE SPECIFIC NOTES

CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED

TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.

THE NATURE OF THIS SITE'S CONSTRUCTION CONSISTS OF: A. CLEARING AND GRUBBING

B. PRELIMINARY GRADING C. UTILITY INSTALLATION D. PAVEMENT CONSTRUCTION

E. BUILDING CONSTRUCTION F. FINAL GRADING AND STABILIZATION

THE SUBSURFACE CONDITIONS ON-SITE CONSIST GENERALLY OF BROWN CLAYS, REDDISH CLAYS, TAN CLAYS, CLAYEY SAND, TAN SAND, AND TAN LIMESTONE, PER REPORT NO. ANA22-051-00, PREPARED BY RABA KISTNER,

INC. ON JANUARY 24, 2023.

STORM WATER ON-SITE WILL LEAVE THE SITE VIA SURFACE FLOW AND UNDERGROUND PIPE.

POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING, OR LANDSCAPING.

VELOCITY DISSIPATION DEVICES (RIP-RAP) WILL BE USED.

DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED, UNLESS EXCEPTED WITHIN THE TPDES PERMIT. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF STABILIZATION OR PERMANENT DRAINAGE

ACCORDING TO COMMUNITY PANEL NO. 48091C0435F, DATED 9/29/2010 OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), A PORTION OF THE SUBJECT TRACT IS LOCATED WITHIN ZONE "AE" WHICH IS DEFINED BY FEMA AS "1% ANNUAL FLOOD CHANCE AREA WITH BASE FLOOD ELEVATIONS DETERMINED". THE REMAINDER OF THE PROPERTY IS WITHIN ZONE "X" (UN-SHADED) DEFINED BY FEMA AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL

CHANCE FLOODPLAIN." CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO INCLUDE BMP'S FOR ANY OFF-SITE MATERIAL WASTE, BORROW OR

EQUIPMENT STORAGE AREAS. CONTRACTOR SHALL INSPECT DISTURBED AREAS, MATERIAL STORAGE AREAS EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND VEHICLE ENTRY AND EXIT AREAS AT LEAST ONCE EVERY 14 CALENDAR

DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR

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10101 REUNION PLACE, SUITE 400 SAN ANTONIO, TX 78216 PHONE : 210-541-9166 FAX: 210-541-8699

WWW.KIMLEY-HORN.COM TBPE FIRM NO. 92

RICHARD J. UNDERWOOD

Huckabee www.huckabee-inc.com 800.687.1229

CONTROL DETAILS (1 OF 2) **PACKAGE** VOLUME Sheet No. 01935-02-02 50% DD

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EROSION
CONTROL
DETAILS (2 OF 2)

PACKAGE

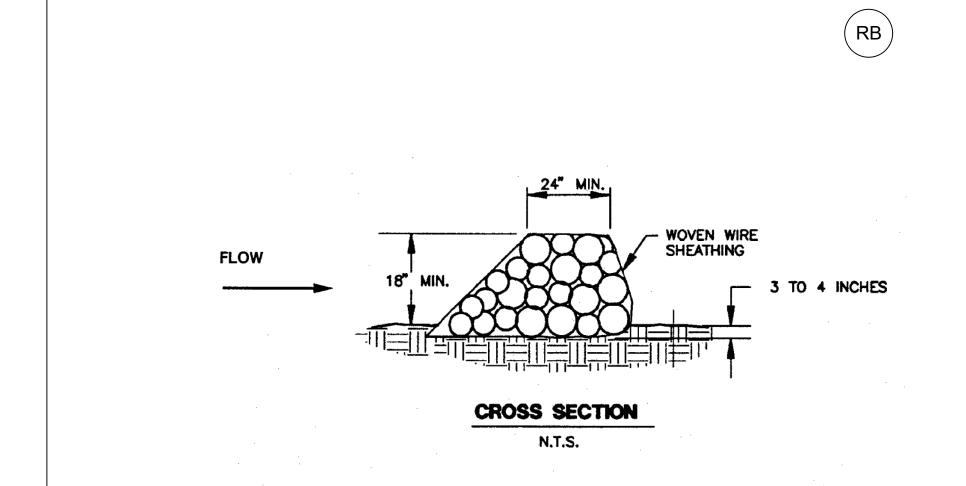
VOLUME

Job No.
01935-02-02

Drawn By:

ISWM™ TECHNICAL MANUAL CONSTRUCTION CONTROLS 1. DOUBLE WRAP OF FLEXIBLE EXTENDED WRAPPED WIRE MESH WITH MESH FILTER MATERIAL NOT ALLOWED ON OPENING 3/4" MAX., OR ACTIVE CITY
STREETS UNLESS
APPROVED BY CITY 24" MIN. BEYOND 2. PLASTIC NETTING DOUBLE END OF CURB OPENING WRAPPED WITH 1/2" MAX. ON BOTH SIDES OPENING, OR 3. GEOSYNTHETIC TUBES **BETWEEN TOP** OF WRAPPED FILTER AND 1½" FILTER STONE -NOTE: PLASTIC OR TOP OF INLET WIRE TIES AROUND OR MULCH FILTER INLET OPENING WIRE OR PLASTIC MATERIAL MESH EVERY 12"-18" OR MORE AS NEEDED. **CROSS SECTION** PLAN VIEW NOTE: VERTICAL PANEL BARRICADES TO BE PLACED WHEN LOCATED ON AN ACTIVE STREET. TYPE A CURB INLET PROTECTION EXTENDED WRAPPED FILTER MATERIAL 24" MIN. BEYOND END OF CURB OPENING STD. CMU BLOCK ON BOTH SIDES CURB MIN. NO. OPENING BLOCKS
4'-6' 1 8'-10' 2 12'-14' 3 16'-20' 4 INLET PLAN VIEW **CROSS SECTION** ALTERNATIVE FORM FOR TYPE A NOTE: SEE NCTCOG STANDARD **CURB INLET PROTECTION** SPECIFICATIONS (2017), SECTION 202.14 AND 202.18 FIGURE 3.6 STANDARD CONSTRUCTION DETAIL - FILTER TUBE CURB INLET PROTECTION

INLET PROTECTION REVISED



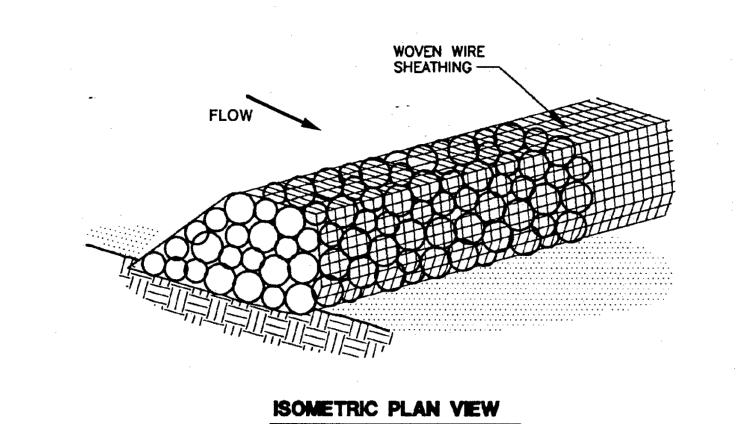
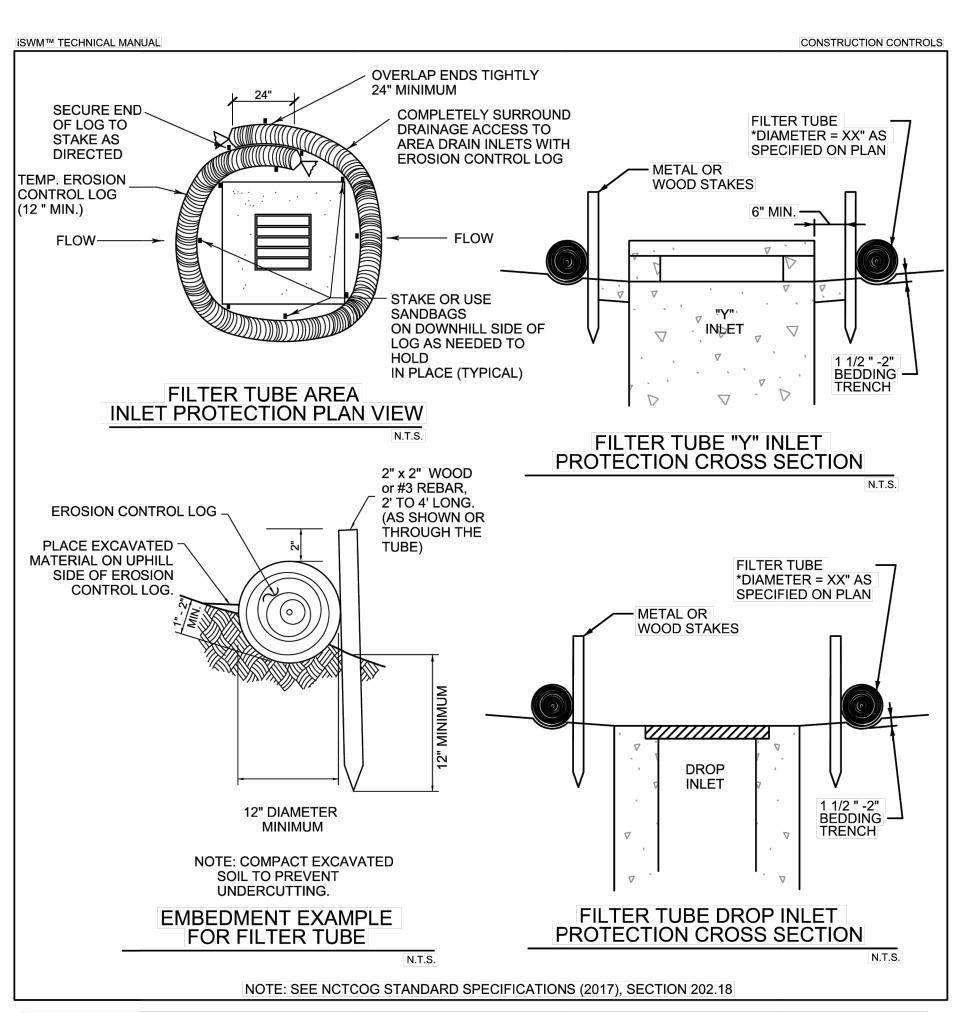


Figure 1-28 Schematic Diagram of a Rock Berm (NCTCOG, 1993)

1-73



(IP2)

(IP1)

FIGURE 3.13 STANDARD CONSTRUCTION DETAIL - FILTER TUBE AREA INLET PROTECTION

INLET PROTECTION REVISED

#### **ATTACHMENT I – Inspection and Maintenance for BMP's**

**PROJECT NAME:** Additions and Renovations to New Braunfels High School for New Braunfels

I.S.D. Phase 2

ADDRESS: 2551 TX 337 Loop CITY, STATE: New Braunfels, TX

#### **TEMPORARY BMP'S**

#### SILT FENCE

■ Inspections: Inspect all fencing weekly, and after any rainfall.

- Sediment Removal: Remove sediment when buildup reaches 6 inches.
- Replace any torn fabric or install a second line of fencing parallel to the torn section.
- Replace or repair any section crushed or collapsed in the course of construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.

When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

#### BAGGED GRAVEL INLET FILTER

- Inspections: Should be made weekly, and after each rainfall. Repair or replacement should be made promptly as needed by the contractor.
- Sediment Removal: Remove sediment when buildup reaches 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
- Check placement of device to prevent gaps between device and curb.
- Inspect filter fabric and patch or replace if torn or missing.
- Structures should be removed and the area stabilized only after the remaining drainage area has been properly stabilized

#### STABILIZED CONSTRUCTION ENTRANCE

- The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public roadways. This may require periodic top dressing with additional stone as conditions demand, as well as repair and clean out of any measure devices used to trap sediment.
- All sediment that is spilled, dropped, washed or tracked onto public roadway must be removed immediately by contractor.

#### TEMPORARY SEDIMENT TRAP

■ Sediment must be removed from sediment traps and sedimentation ponds no later than the time that design capacity has been reduced by 50%. For perimeter controls such as silt fences, berms, etc., the trapped sediment must be removed before it reaches 50% of the above-ground height

The stabilized construction entrance will be removed once the driveway to the proposed site is complete. Disposal of accumulated silt shall be accomplished following Texas Commission on Environmental Quality guidelines and specifications.

Maintenance records shall be kept on the installation, maintenance, or removal of items necessary for the proper operation of the facilities.

All inspections shall be documented.

An amended copy of this document will be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information.

This Maintenance Plan is based on TCEO Maintenance Guidelines.

# EDWARDS AQUIFER CONTRIBUTING ZONE STORMWATER QUALITY MAINTENANCE PLAN

INSTALLATION		MAINTI	MAINTENANCE		REMOVAL	
DATE	CONTROL TYPE	DATE	CONTROL TYPE	DATE	CONTROL TYPE	
			n la			

Note: Reference Contributing Zone Application Attachment N Maintenance Plan and Schedule for BMP's

# ATTACHMENT J – Schedule of Interim and Permanent Soil Stabilization Practices

Stabilization measures shall be initiated as soon as possible in portions of the site where construction activities have ceased, temporarily or permanently, but in no case more than 14 days after the construction activity in that portion of the site concluded. Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

SOIL S	STABILIZATION PRACTICES:
	_HYDROMULCHING
	TEMPORARY SEEDING
Χ	PERMANENT PLANTING, SODDING, OR SEEDING
Χ	MULCHING
	SOIL RETENTION BLANKET
	BUFFER ZONES
X	PRESERVATION OF NATURAL RESOURCES

OTHER: Disturbed areas, in which construction activity has ceased temporarily or permanently, shall be stabilized within 14 days unless activities are scheduled to resume and done within 21 days.

#### **Permanent Stormwater Section**

**Texas Commission on Environmental Quality** 

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(C), (D)(Ii), (E), and (5), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

#### Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Permanent Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print N	ame of Customer/Agent:
Date: _	
Signatu	we of Costomer/Agent  May
Regulat	ted Entity Name: Additions & Renovations to New Braunfels Highschool for New Braunfels I.S.D.
Pern	Phase 2 nanent Best Management Practices (BMPs)
	nent best management practices and measures that will be used during and after action is completed.
1.	Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
	N/A
2.	These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
	The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

	A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is:
	□ N/A
3.	Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.
	□ N/A
4.	Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
	<ul> <li>The site will be used for low density single-family residential development and has 20% or less impervious cover.</li> <li>The site will be used for low density single-family residential development but has more than 20% impervious cover.</li> <li>The site will not be used for low density single-family residential development.</li> </ul>
5.	The executive director may waive the requirement for other permanent BMPs for multifamily residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
	<ul> <li>□ Attachment A - 20% or Less Impervious Cover Waiver. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.</li> <li>□ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.</li> <li>□ The site will not be used for multi-family residential developments, schools, or small business sites.</li> </ul>
6.	Attachment B - BMPs for Upgradient Stormwater.

	A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
	<ul> <li>No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.</li> <li>Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.</li> </ul>
7.	Attachment C - BMPs for On-site Stormwater.
	<ul> <li>A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.</li> <li>Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.</li> </ul>
8.	<b>Attachment D - BMPs for Surface Streams</b> . A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
	N/A
9.	The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
	<ul> <li>The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.</li> <li>Attachment E - Request to Seal Features. A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.</li> </ul>
10.	<b>Attachment F - Construction Plans</b> . All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:
	<ul> <li>□ Design calculations (TSS removal calculations)</li> <li>□ TCEQ construction notes</li> <li>□ All geologic features</li> <li>□ All proposed structural BMP(s) plans and specifications</li> </ul>
	N/A

insp	achment <b>G - Inspection, Maintenance, Repair and Retrofit Plan</b> . A plan for the pection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and asures is attached. The plan includes all of the following:
	Prepared and certified by the engineer designing the permanent BMPs and measures Signed by the owner or responsible party Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit A discussion of record keeping procedures
☐ N/A	
reco	achment H - Pilot-Scale Field Testing Plan. Pilot studies for BMPs that are not ognized by the Executive Director require prior approval from the TCEQ. A plan for t-scale field testing is attached.
☐ N/A	·
of t and and crea by t	he measures that will be used to avoid or minimize surface stream contamination changes in the way in which water enters a stream as a result of the construction development is attached. The measures address increased stream flashing, the ation of stronger flows and in-stream velocities, and other in-stream effects caused the regulated activity, which increase erosion that results in water quality tradation.
☐ N/A	
Respor	nsibility for Maintenance of Permanent BMP(s)
=	lity for maintenance of best management practices and measures after on is complete.
unt enti owr owr resp	applicant is responsible for maintaining the permanent BMPs after construction il such time as the maintenance obligation is either assumed in writing by another ity having ownership or control of the property (such as without limitation, an ner's association, a new property owner or lessee, a district, or municipality) or the nership of the property is transferred to the entity. Such entity shall then be consible for maintenance until another entity assumes such obligations in writing or nership is transferred.
□ N/A	A
app mul or a	opy of the transfer of responsibility must be filed with the executive director at the ropriate regional office within 30 days of the transfer if the site is for use as a tiple single-family residential development, a multi-family residential development, non-residential development such as commercial, industrial, institutional, schools, other sites where regulated activities occur.
☐ N/A	

# **ATTACHMENT B – BMPs for Upgradient Stormwater**

Permanent water	r quality feature	s have been installed	and sized for t	upgradient stormwater.
-----------------	-------------------	-----------------------	-----------------	------------------------

## **ATTACHMENT C – BMPs for On-site Stormwater**

Permanent BMPS for the proposed High School Improvements are needed. Proposed BMPS will include a Jellyfish filter upstream of underground detention for the parking lot south of the phase 1 building, and another Jellyfish filter beneath the proposed artificial turf practice field to the south.

# ATTACHMENT F - Construction Plans and Design Calculations



#### **ENGINEERING REPORT**

TO:

Contech Engineered Solutions LLC

9100 Centre Pointe Drive, Suite 400

West Chester, Ohio 45069

DATE: July 2, 2024

Koontz Bryant Johnson Williams, Inc.

TBPE Firm Number F-23121

KBJW NO:

30873-001-01-0724

ATTN:

Robbin DeArmond

Stormwater Design Engineer

Re:

Review of TSS Removal Calculations and Shop Drawings for Two (2) Jellyfish® Filters (798667);

New Braunfels High School, New Braunfels, Texas; KBJW Report No. 30873-001-01-0724

Koontz Bryant Johnson Williams, Inc. (KBJW, formerly CBC Engineers and Associates, Ltd.) is pleased to submit our report for the above referenced project. The purpose of this report is to provide a peer review of the TSS removal calculations and shop drawings for the two (2) proposed Jellyfish® Filters at the above referenced project location. We have evaluated the calculations and shop drawings, and agree they conform to the requirements of TCEQ RG-348 and to accepted industry standards for this product type. We have not made an independent verification of the data used to perform the calculations, and understand all initial assumptions and data are correct as presented to us. The proposed "JF1" Jellyfish® filter (JFPD0808-12-3 with 12 hi-flo and 3 drain down 54" cartridges) treatment flow rate (2.41 cfs) meets or exceeds the required water quality treatment flow rate for its respective drainage basin (2.29 cfs) as shown in the attached calculations. The proposed "JF2" Jellyfish® filter (JFPD0808-12-3 with 12 hi-flo and 3 drain down 54" cartridges) treatment flow rate (2.41 cfs) meets or exceeds the required water quality treatment flow rate for its respective drainage basin (2.34 cfs) as shown in the attached calculations. No structural design calculations or details have been reviewed in conjunction with this project and others than KBJW are responsible for all other aspects of this project including but not limited to the structural design and buoyancy evaluation. We have accordingly signed and sealed this report containing the calculations and shop drawings, and they are attached in Appendix A and Appendix B of this report, respectively.

If you have any questions, please contact us.

Respectfully submitted,

Koontz Bryant Johnson Williams, Inc.

Mitchell T. Hardert, P.E.

Chief Engineer

MTH/mth

ec: Client (robbin.dearmond@conteches.com)

ec: Alex MacLeod (alex.macleod@conteches.com)

ec: Jamie Minnick (jamie.minnick@conteches.com)

1-File

# APPENDIX A CALCULATIONS

#### Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality TSS Removal Calculations

Project Name: New Braunfels High School Phase 2

Date Prepared: 5/16/2024

#### 1. The Required Load Reduction for the total project:

Calculations from RG-348

Page 3-29 Equation 3.3:  $L_M = 27.2(A_N \times P)$ 

Pages 3-27 to 3-30

 $L_{M\;TOTAL\;PROJECT} = \; Required\; TSS \; removal \; resulting \; from \; the \; proposed \; development = 80\% \; of \; increased \; load \; A_N = \; Net \; increase \; in \; impervious \; area \; for \; the \; project$ 

P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

	Comal	County =
acres	4.52	Total project area included in plan * =
acres	0.00	Predevelopment impervious area within the limits of the plan * =
acres	3.48	Total post-development impervious area within the limits of the plan* =
	0.77	Total post-development impervious cover fraction * =
inches	33	P =
lbs	2124	LAUTOTAL PROJECT =

Number of drainage basins / outfalls areas leaving the plan area =

#### 2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. =	PK-A4.1	
Total drainage basin/outfall area =	2.19	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	2.19	acres
Post-development impervious fraction within drainage basin/outfall area =	1.00	
$L_{M THIS BASIN} =$	1966	lbs.

#### 3. Indicate the proposed BMP Code for this basin.

Proposed BMP =	JF	abbreviation
Removal efficiency =	86	percent

#### $\underline{\textbf{4. Calculate Maximum TSS Load Removed}} \; (\underline{\textbf{L}_{R}}) \; \text{for this Drainage Basin by the selected BMP Type.}$

RG-348 Page 3-33 Equation 3.7: LR = (BMP efficiency) x P x ( $A_1$  x 34.6 +  $A_P$  x 0.54)

 $A_{C}\!=\!\,$  Total On-Site drainage area in the BMP catchment area

 $\begin{array}{l} A_{I} = \ Impervious \ area \ proposed \ in \ the \ BMP \ catchment \ area \\ A_{P} = \ Pervious \ area \ remaining \ in \ the \ BMP \ catchment \ area \\ L_{R} = \ TSS \ Load \ removed \ from \ this \ catchment \ area \ by \ the \ proposed \ BMP \end{array}$ 

$A_C =$	2.19	acres
$A_I =$	2.19	acres
$A_P =$	0.00	acres
$I_{D} =$	2150	lhs

#### 5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired L <sub>M THIS BASIN</sub> =	1966	lbs.
F =	0.91	

#### 6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area.

Offsite area draining to BMP =	0.00	acres
Offsite impervious cover draining to BMP =	0.00	acres
Rainfall Intensity = Effective Area =	1.97	inches per hour
Cartridge Length =	54	inches

Peak Treatment Flow Required =

cubic feet per second 2.29

#### 7. Jellyfish

Designed as Required in RG-348 Section 3.2.22

Calculations from RG-348 Pages Section 3.2.22

Flow Through Jellyfish Size	Vault
Jellyfish Size for Flow-Based Configuration =	JFPD0808-12-3
Jellyfish Treatment Flow Rate =	2.41 cfs

#### Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality TSS Removal Calculations

Project Name: New Braunfels High School Phase 2

Date Prepared: 5/16/2024

#### 1. The Required Load Reduction for the total project:

Calculations from RG-348

Page 3-29 Equation 3.3:  $L_M = 27.2(A_N \times P)$ 

Pages 3-27 to 3-30

 $L_{M\:TOTAL\:PROJECT} = Required\:TSS\:removal\:resulting\:from\:the\:proposed\:development = 80\%\:of\:increased\:load\:A_N = \:Net\:increase\:in\:impervious\:area\:for\:the\:project$ 

P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

	Comal	County =
acres	4.52	Total project area included in plan *=
acres	0.00	Predevelopment impervious area within the limits of the plan * =
acres	3.48	Total post-development impervious area within the limits of the plan* =
	0.77	Total post-development impervious cover fraction * =
inches	33	P =
lbs.	3124	$L_{M TOTAL PROJECT} =$

Number of drainage basins / outfalls areas leaving the plan area = 3

#### 2. Drainage Basin Parameters (This information should be provided for each basin):

#### Drainage Basin/Outfall Area No. = PR-A5 & PR-A5.1

Total drainage basin/outfall area =	2.33	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	2.24	acres
Post-development impervious fraction within drainage basin/outfall area =	0.96	
$L_{M THIS BASIN} =$	2011	lbs.

#### 3. Indicate the proposed BMP Code for this basin.

Proposed BMP = JF abbreviation
Removal efficiency = 86 percent

#### 4. Calculate Maximum TSS Load Removed (L<sub>R</sub>) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7:  $LR = (BMP \text{ efficiency}) \times P \times (A_I \times 34.6 + A_P \times 0.54)$ 

 $A_{C}= \, {
m Total} \, {
m On}\text{-Site} \, {
m drainage} \, {
m area} \, {
m in} \, {
m the} \, {
m BMP} \, {
m catchment} \, {
m area} \, {
m A}_{I}= \, {
m Impervious} \, {
m area} \, {
m proposed} \, {
m in} \, {
m the} \, {
m BMP} \, {
m catchment} \, {
m area} \, {
m ar$ 

 $A_P=$  Pervious area remaining in the BMP catchment area  $L_R=$  TSS Load removed from this catchment area by the proposed BMP

A <sub>C</sub> =	2.33	acres
$A_I =$	2.24	acres
$A_P =$	0.09	acres
$L_R =$	2201	lbs.

#### 5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired  $L_{MTHIS BASIN} =$  2011 lbs. F = 0.91

#### $\underline{\textbf{6. Calculate Treated Flow required by the BMP Type for this drainage } \textbf{basin/outfall area.}$

Offsite area draining to BMP = 0.00 acres
Offsite impervious cover draining to BMP = 0.00 acres

Rainfall Intensity = 1.15 inches per hour
Effective Area = 2.02 acres
Cartridge Length = 54 inches

Peak Treatment Flow Required = 2.34 cubic feet per second

#### <u> 7. Jellyfish</u>

Designed as Required in RG-348 Section 3.2.22

Calculations from RG-348 Pages Section 3.2.22

Flow Through Jellyfish Size		Vault	
	w-Based Configuration = n Treatment Flow Rate =	JFPD0808-12-3 2.41	cfs

MUCHEN THARDART

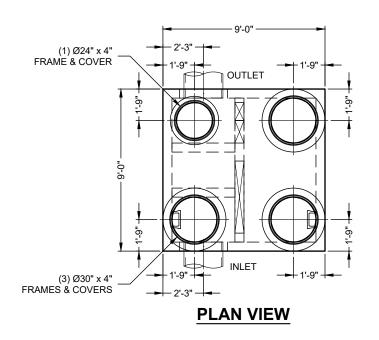
ON 108405

OCENSES

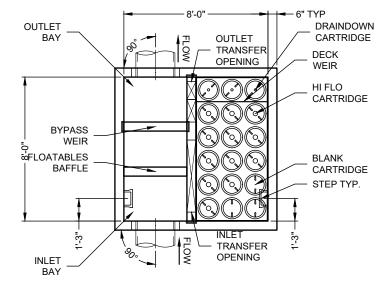
OCENSES

1/2/24

# APPENDIX B SHOP DRAWINGS



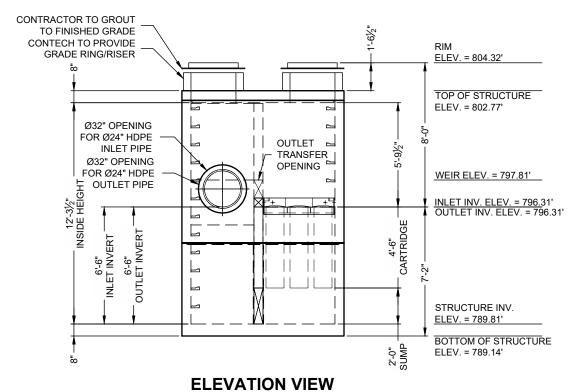




#### **PLAN VIEW**

(TOP SLAB NOT SHOWN FOR CLARITY)

#### MTH 7/2/24 KBJW-30873-001



MATERIA	L LIST - PROVIDED BY CONTECH	
COUNT	DESCRIPTION	INSTALLED BY
12	54" HI-FLO CARTRIDGE (70 mm ORIFICE)	CONTECH
3	54" DRAINDOWN CARTRIDGE (35 mm ORIFICE)	CONTECH
3	CARTRIDGE BLANK (NO ORIFICE)	CONTECH
1	JELLYFISH VAULT 18-CARTRIDGE DECK, STANDARD	CONTECH
1	JOINT SEALANT (BY PRECASTER)	CONTRACTOR
3	Ø30" X 4" FRAME & COVER, EJ #41600483	CONTRACTOR
1	Ø24" X 4" FRAME & COVER, EJ #41600389	CONTRACTOR
4 PLCS.	GRADE RING/RISER	CONTRACTOR
17	STEPS	CONTECH
1	EPA LABEL	CONTECH

#### SITE DESIGN DATA

<u> </u>	
WATER QUALITY FLOW RATE	2.29 CFS
PEAK FLOW RATE	17.23 CFS
RETURN PERIOD OF PEAK FLOW	25 YRS

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE

- 2. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. WWW.ContechES.COM
- 3. JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- 4. STRUCTURE SHALL MEET AASHTO HS-20, ASSUMING EARTH COVER OF 1' 6.5", AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
- 5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

**INSTALLATION NOTES** 

- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE.
- C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT)
- D. WHEN ACTIVATED PRIOR TO SITE STABILIZATION, CONTRACTOR TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION
- E. CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ACCORDING TO THE PROVISIONS IN THE ACTIVATION CHECKLIST AND THE QUOTED SCOPE OF WORK. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (800) 338-1122.

APPROXIMATE HEAVIEST PICK OF (3) PIECES = 25,000 LBS.



5635 / 492043 LAYOUT 7 CLASS 800

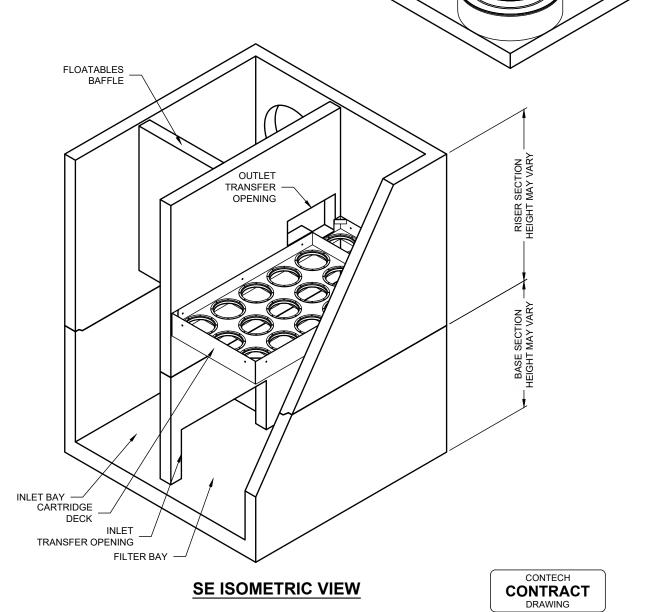
-10 X 8' JELLYFISH\* - 798667-1 NEW BRAUNFELS HS NEW BRAUNFELS, TX SITE DESIGNATION: JF1 ×  $\bar{\infty}$ 

lellyfish" Filter

DATE:			
06/28/2024			
DESIGNED:	DRAWN:		
RKD	MAA		
CHECKED:	APPROVED:		
MSB	RKD		
PROJECT No.:	SEQUENCE No.:		
798667	10		
SHEET:			
1	OF 2		

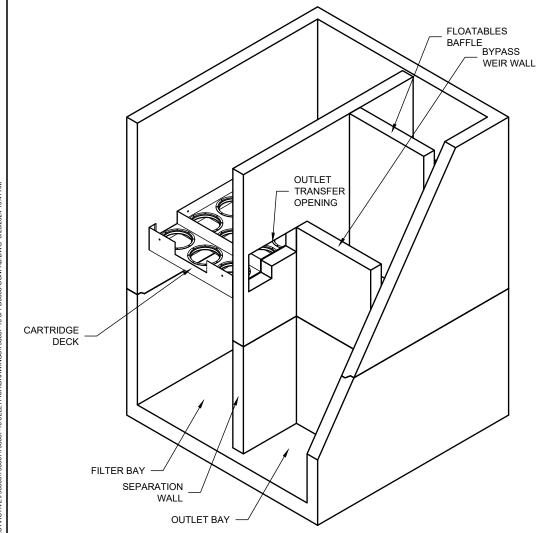






(1) 24" x 4" FRAME AND COVER

(3) 30" x 4" FRAMES AND COVERS



**NW ISOMETRIC VIEW** 



8			
CONTECH ENGINEERED SOLUTIONS LLC	www.ContechES.com	9100 Centre Pointe Dr., Suite 400. West Chester, OH 45069 800-338-1122 513-645-7000 513-645-7993 FAX	Jellyfish: Filter

<u> </u>	æ	
DATE: 06/28/2024		
DESIGNED:	DRAWN:	
RKD	MAA	
CHECKED:	APPROVED:	
MSB	RKD	
PROJECT No.:	SEQUENCE No.:	
798667	10	
SHEET:		

**SE ISOMETRIC VIEW** 

2 OF 2

# 1810B4 V1600-4 Assembly







#### **Product Number** 41600483

#### **Design Features**

-Materials Cover Gray Iron (CL35B) Gray Iron (CL35B)

- -Design Load
- Heavy Duty
- -Open Area n/a
- -Coating
- Undipped
- √ Designates Machined Surface

#### Certification

- ASTM A48
- -Country of Origin: USA

#### **Major Components**

00180783 41600410

#### **Drawing Revision**

05/09/2007 Designer: SMH 6/26/2017 Revised By: DAE

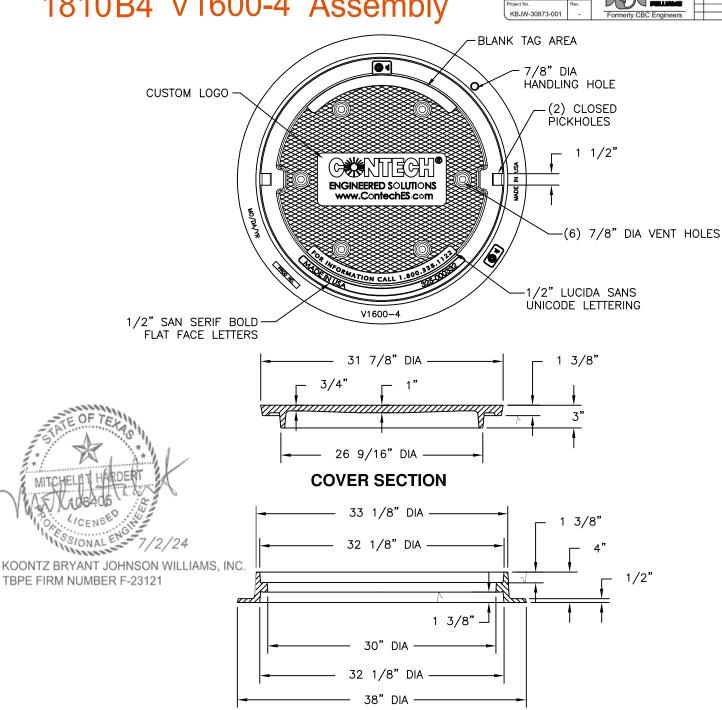
#### Disclaimer

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#### Contact

800 626 4653 ejco.com



FRAME SECTION

# V1600-3 V1610-3 Assembly

1/2" SAN SERIF BOLD-

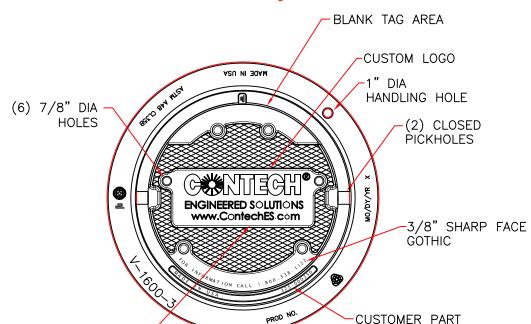
FLAT FACE LETTERS



NUMBER 3/8" SHARP

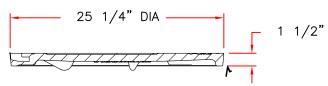
FACE GOTHIC





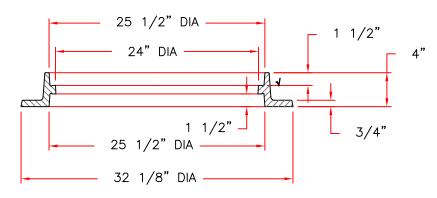


KOONTZ BRYANT JOHNSON WILLIAMS, INC. TBPE FIRM NUMBER F-23121



#### **COVER SECTION**

**PLAN VIEW** 



#### **RING SECTION**

# **Product Number** 41600389

#### **Design Features**

-Materials Frame Gray Iron (CL35B) Cover Gray Iron (CL35B)

-Design Load

Heavy Duty

-Open Area n/a

-Coating

Undipped

- V Designates Machined Surface

#### Certification

- ASTM A48

-Country of Origin: USA

#### **Major Components**

41600310 41600374

#### **Drawing Revision**

05/02/2008 Designer: DEW 6/20/2017 Revised By: DAE

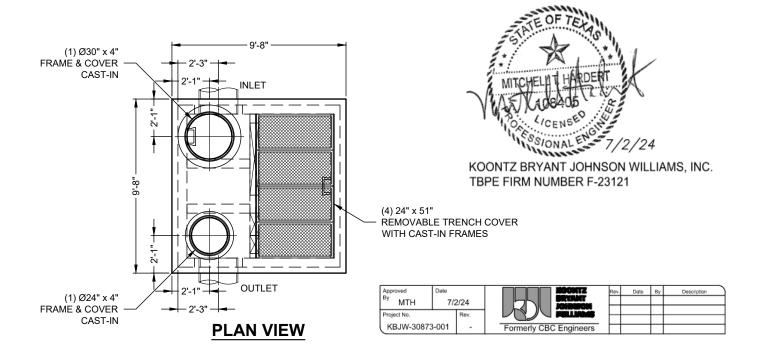
#### Disclaimer

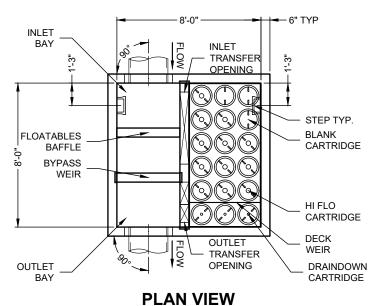
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#### Contact

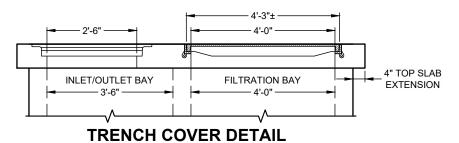
800 626 4653 ejco.com

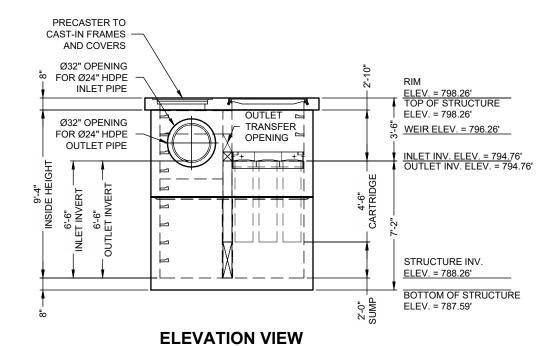




(TOP SLAB NOT SHOWN FOR CLARITY)

TRENCH COVERS SHIPPED SEPARATELY. TOP SLAB IS NOT TO BE LIFTED WITH COVERS INSTALLED.





#### MATERIAL LIST - PROVIDED BY CONTECH

WAIERIA	LLIST - PROVIDED BY CONTECT		<u> </u>
COUNT	DESCRIPTION	INSTALLED BY	٧
12	54" HI-FLO CARTRIDGE (70 mm ORIFICE)	CONTECH	F
3	54" DRAINDOWN CARTRIDGE (35 mm ORIFICE)	CONTECH	Р
3	CARTRIDGE BLANK (NO ORIFICE)	CONTECH	R
1	JELLYFISH VAULT 18-CARTRIDGE DECK, STANDARD	CONTECH	Р
1	JOINT SEALANT (BY PRECASTER)	CONTRACTOR	
1	Ø30" X 4" FRAME & COVER, EJ #41600483	CONTRACTOR	
1	Ø24" X 4" FRAME & COVER, EJ #41600389	CONTRACTOR	
4	24" X 51" TRENCH COVER, EJ #47514031	CONTRACTOR	
4 PCS.	2.5" X 48" TRENCH FRAME, EJ #47300311	CONTECH	
11	STEPS	CONTECH	
1	STEP, LANE P-14850 (FOR LADDER ATTACHMENT)	CONTECH	
1	REMOVABLE, LANE 4-STEP POLY LADDER	CONTECH	

#### SITE DESIGN DATA

WATER QUALITY FLOW RATE	2.34 CFS
PEAK FLOW RATE	16.14 CFS
RETURN PERIOD OF PEAK FLOW	25 YRS

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE
- 2. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. WWW.ContechES.COM
- 3. JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- 4. STRUCTURE SHALL MEET AASHTO HS-20, ASSUMING EARTH COVER OF 0' 0", AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
- 5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

#### **INSTALLATION NOTES**

- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE.
- C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT)
- D. WHEN ACTIVATED PRIOR TO SITE STABILIZATION, CONTRACTOR TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION
- E. CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ACCORDING TO THE PROVISIONS IN THE ACTIVATION CHECKLIST AND THE QUOTED SCOPE OF WORK. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (800) 338-1122.

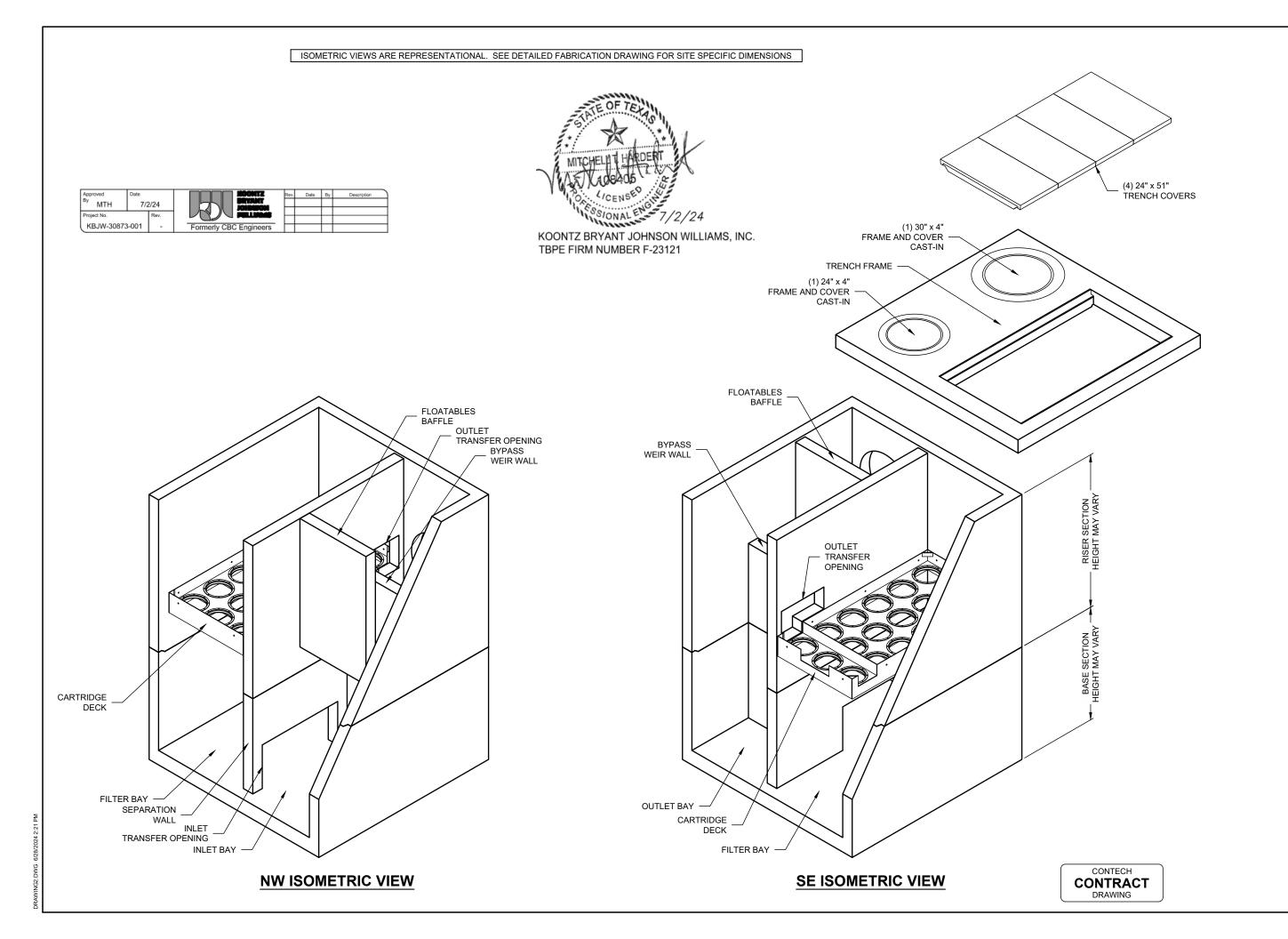
APPROXIMATE HEAVIEST PICK OF (3) PIECES = 20,500 LBS.



5635 / 492043 LAYOUT 7 CLASS 600 X 8' JELLYFISH\* - 798667-1 NEW BRAUNFELS HS NEW BRAUNFELS, TX SITE DESIGNATION: JF2  $\times$  $\bar{\infty}$ 

lellyfish" Filter

DATE:										
06/28/2024										
DESIGNED:	DRAWN:									
RKD	MAA									
CHECKED:	APPROVED:									
RKD	RKD									
ROJECT No.:	SEQUENCE No.:									
798667	15									
SHEET:										
1	OF 2									



8' X 8' JELLYFISH\* - 798667-15
NEW BRAUNFELS HS
NEW BRAUNFELS, TX
SITE DESIGNATION: JF2

ENGINEERE SOUTIONS ILC

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storcont

DATE: 06/28/2024

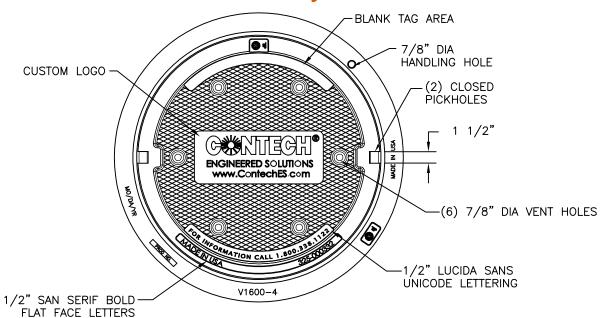
DESIGNED: DRAWN: MAA

CHECKED: APPROVED: RKD RKD

PROJECT No.: SEQUENCE No. 798667

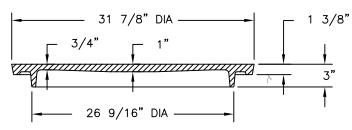
98667 15 : 2 OF 2

# 1810B4 V1600-4 Assembly



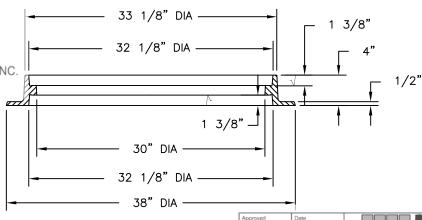


KOONTZ BRYANT JOHNSON WILLIAMS, INC. TBPE FIRM NUMBER F-23121



#### **COVER SECTION**

FRAME SECTION



MTH

KBJW-30873-001

7/2/24



# Product Number 41600483

#### **Design Features**

-Materials Cover Gray Iron (CL35B) Frame Gray Iron (CL35B)

-Design Load

Heavy Duty

-Open Area

-Coating

Undipped

- V Designates Machined Surface

#### Certification

- ASTM A48

- A3 HVI A40

-Country of Origin: USA

#### **Major Components**

00180783 41600410

#### **Drawing Revision**

05/09/2007 Designer: SMH 6/26/2017 Revised By: DAE

#### Disclaimer

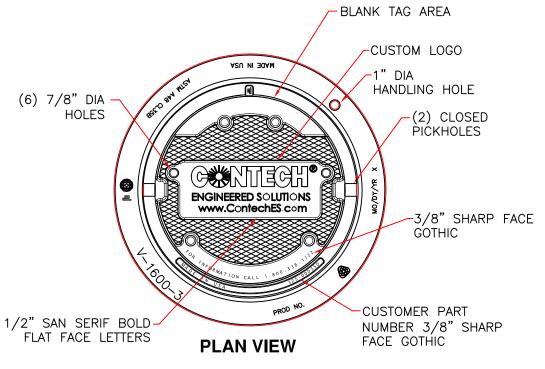
Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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#### Contact

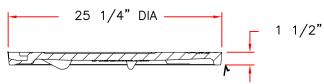
800 626 4653 ejco.com

# V1600-3 V1610-3 Assembly

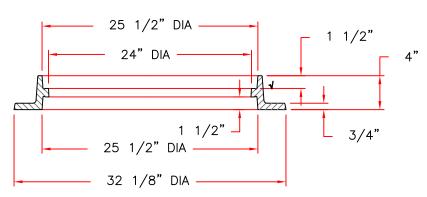




KOONTZ BRYANT JOHNSON WILLIAMS, INC. TBPE FIRM NUMBER F-23121



#### **COVER SECTION**



#### **RING SECTION**

Approved	Date			Rev.	Date	Ву	Description
By MTH	7/2	2/24		NACH -			
Project No.		Rev.					
KBJW-30873	3-001	-	Formerly CBC Eng	gineers			



#### **Product Number**

#### 41600389

#### **Design Features**

-Materials Frame Gray Iron (CL35B) Cover Gray Iron (CL35B)

-Design Load

Heavy Duty

-Open Area n/a

-Coating

Undipped

- V Designates Machined Surface

#### Certification

- ASTM A48

-Country of Origin: USA

#### **Major Components**

41600310 41600374

#### **Drawing Revision**

05/02/2008 Designer: DEW 6/20/2017 Revised By: DAE

#### Disclaimer

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#### Contact

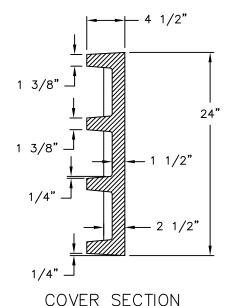
800 626 4653 ejco.com

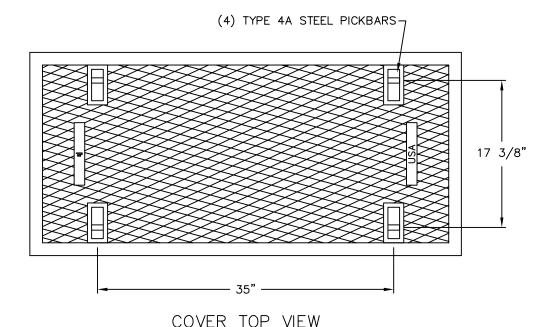
## V7514 Trench Cover

3 5/16"

-5/8" STEEL BAR







# Approved By MTH 7/2/24 Project No. KBJW-30873-001 - Formerly CBC Engineers - 1 1/2" 1 1/8" 2 1/2" 1 1/2" 4 1/2" PROD. NO. MO/DY/YR X ASTM A48 CL35B

# Product Number 47514031

#### **Design Features**

- -Materials
- Gray Iron (CL35B)
- -Design Load
- Heavy Duty
- -Open Área
- n/a
- -Coating
- Undipped
- √ Designates Machined Surface

#### Certification

- ASTM A48
- -
- -Country of Origin: USA

#### **Estimated Weight:**

- 650 lbs

#### **Drawing Revision**

08/19/2009 Designer: SBB 4/18/2018 Revised By: DAE

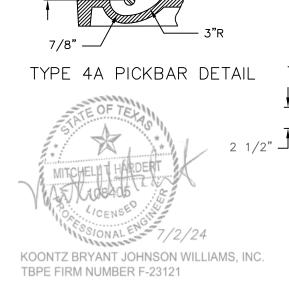
#### Disclaimer

Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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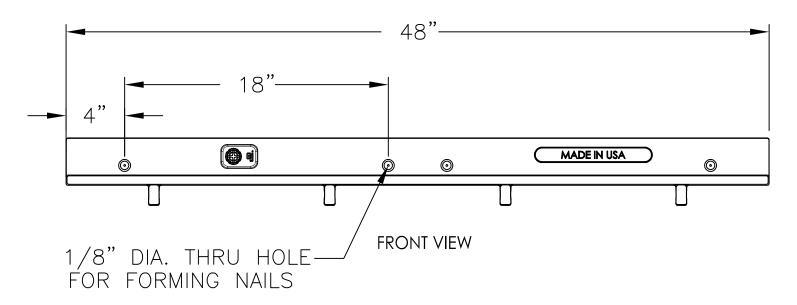


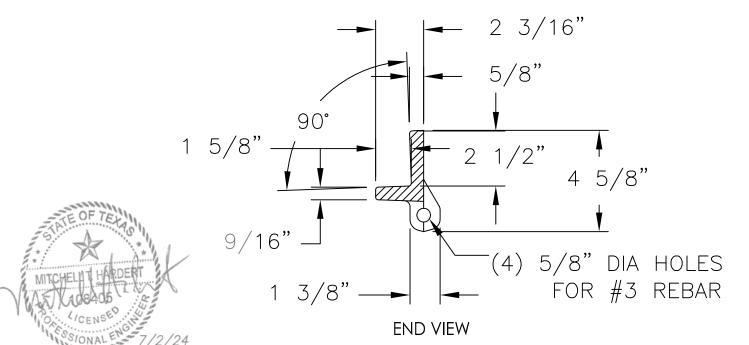
1 3/8"

# V7300-3 Trench Rail

Approved	Date		HOONTZ	Rev.	Date	Ву	Description
By MTH	7/2	2/24	JOHNSON JOHNSON	H		H	
Project No.		Rev.		Н		$\vdash$	
KBJW-3087	3-001	-	Formerly CBC Engineers	$\vdash$			







#### **Product Number** 47300311

#### **Design Features**

-Materials

Gray Iron (CL35B)

-Design Load

Heavy Duty
-Open Area

n/a

-Coating

Undipped

-√ Designates Machined Surface

#### Certification

- ASTM A536

-Country of Origin: USA

#### **EstImated Weight:**

- 38 lbs

#### **Drawing Revision**

4/16/2005 Designer: SBB 4/18/2018 Revised By: DAE

#### Disclaimer

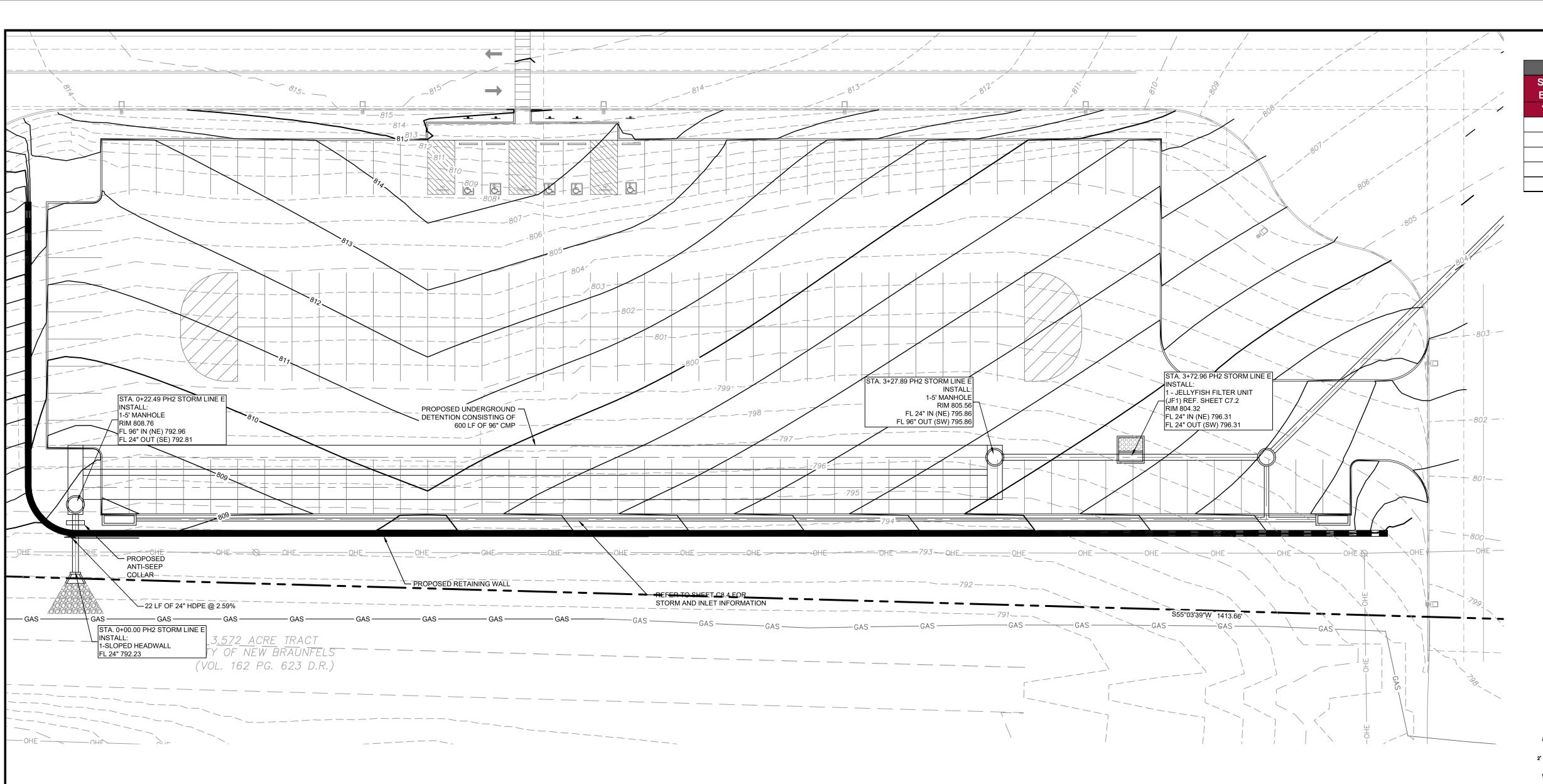
Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

CONFIDENTIAL: This drawing is the property of EJ GROUP, Inc., and embodies confidential information, registered marks, patents, trade secret information, and/or know how that is the property of EJ GROUP, Inc. Copyright © 2012 EJ GROUP, Inc. All rights reserved.

#### Contact

800 626 4653 ejco.com





96" DETENTION

FB EL 801.12 

CONTECH HEADER BOX -

PER MANUFACTURER SPECIFICATIONS

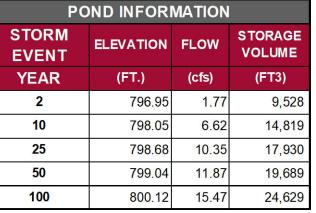
18" ORIFICE IN -

RESTRICTOR -PLATE

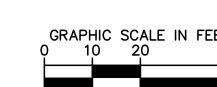
6" ORIFICE IN — RESTRICTOR PLATE FL = 792.81

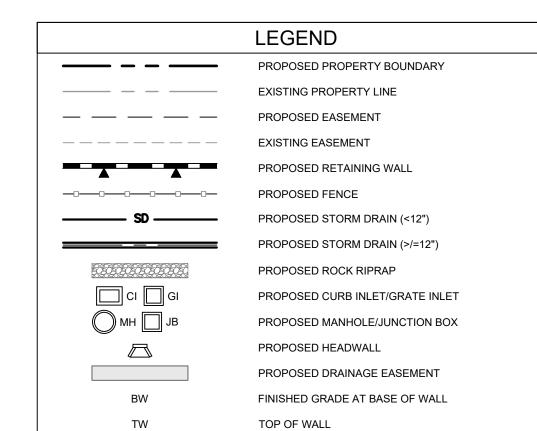
24" OUTFALL PIPE — TO LEVEL SPREADER

RESTRICTOR PLATE FL = 797.00



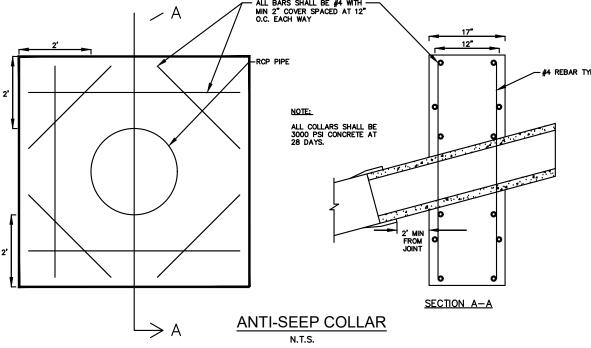






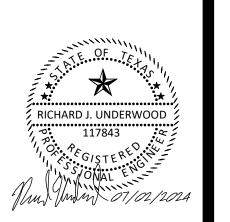
# POND NOTES & MAINTENANCE REQUIREMENTS

- . NO EARTHEN SLOPE SHALL BE GREATER THAN 3:1, UNLESS OTHERWISE NOTED. 2. STORM AND POND MAINTENANCE SHALL FOLLOW THE MAINTENANCE TABLE BELOW.
- B. POND SHALL BE RETURNED TO ORIGINAL CONDITIONS IF VOLUME IS DECREASED BY MORE THAN 10% OR IF POND TAKES LONGER THAN 60 HOURS TO COMPLETELY DRAIN
- RETAINING WALL DESIGN BY OTHERS SHALL TAKE INTO CONSIDERATION THE SURROUNDING PROPOSED IMPROVEMENTS, SUCH AS LIGHT POLES AND PARKING. CONTRACTOR SHALL PROVIDE CONSTRUCTION PLANS, INCLUDING STRUCTURAL DESIGN AND HANDRAIL, FOR THE RETAINING WALL IN CONFORMANCE WITH CITY STANDARDS. CONTRACTOR SHALL SUBMIT THE PLANS FOR OWNER, ARCHITECT, AND ENGINEER REVIEW AND CONTRACTOR SHALL OBTAIN CITY PERMIT.



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NEW BRAUNFELS HIGH SCHOOL MAINTENANCE SCHEDULE												
Maintenance Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Non-Structural Controls												
Litter Control	Χ	X	X	Χ	X	X	Χ	Χ	Χ	X	Χ	Χ
Landscape Management	X				X				Χ			
Detention Pond			X	Χ	X	Х						
Mow or Weed-Eat Banks										X		
INSPECTION	X	X	X	Χ	X	Х	X	Χ	X	X	X	X
"X" Identifies the months in which the activity will be performed (at a minimum)												

REFER TO THE SURVEY PREPARED BY KFW ENGINEERS & SURVEYING FOR THE LOCATION OF THESE BENCHMARKS. ACCORDING TO THE SURVEY, THE ELEVATIONS WERE ESTABLISHED UTILIZING NAVD88 (GEOID 12A)

BENCHMARK LIST ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING" ELEVATION: 808.79' STAME

MAG WITH WASHER MPED "KFW SURVEYING"	DETENTION AND WATER QUALITY PLAN			
	PACKAGE	VOLUME		
Know what's below.	<b>Job No.</b> 01935-02-02	Sheet No. 50% DD		
Call before you dig.	Drawn By:	7 0		
	Date: 07/02/2024	1 6/.0		

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL

REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND

ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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> \* ... RICHARD J. UNDERWOOD 117843

Huckabee REFER TO THE SURVEY PREPARED BY KFW ENGINEERS & www.huckabee-inc.com 800.687.1229

> **DETENTION AND WATER** QUALITY DETAILS PACKAGE

SURVEYING FOR THE LOCATION OF THESE BENCHMARKS. ACCORDING TO THE SURVEY, THE ELEVATIONS WERE ESTABLISHED UTILIZING NAVD88 (GEOID 12A)

BENCHMARK LIST

Know what's **below.**Call before you dig.

ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING"

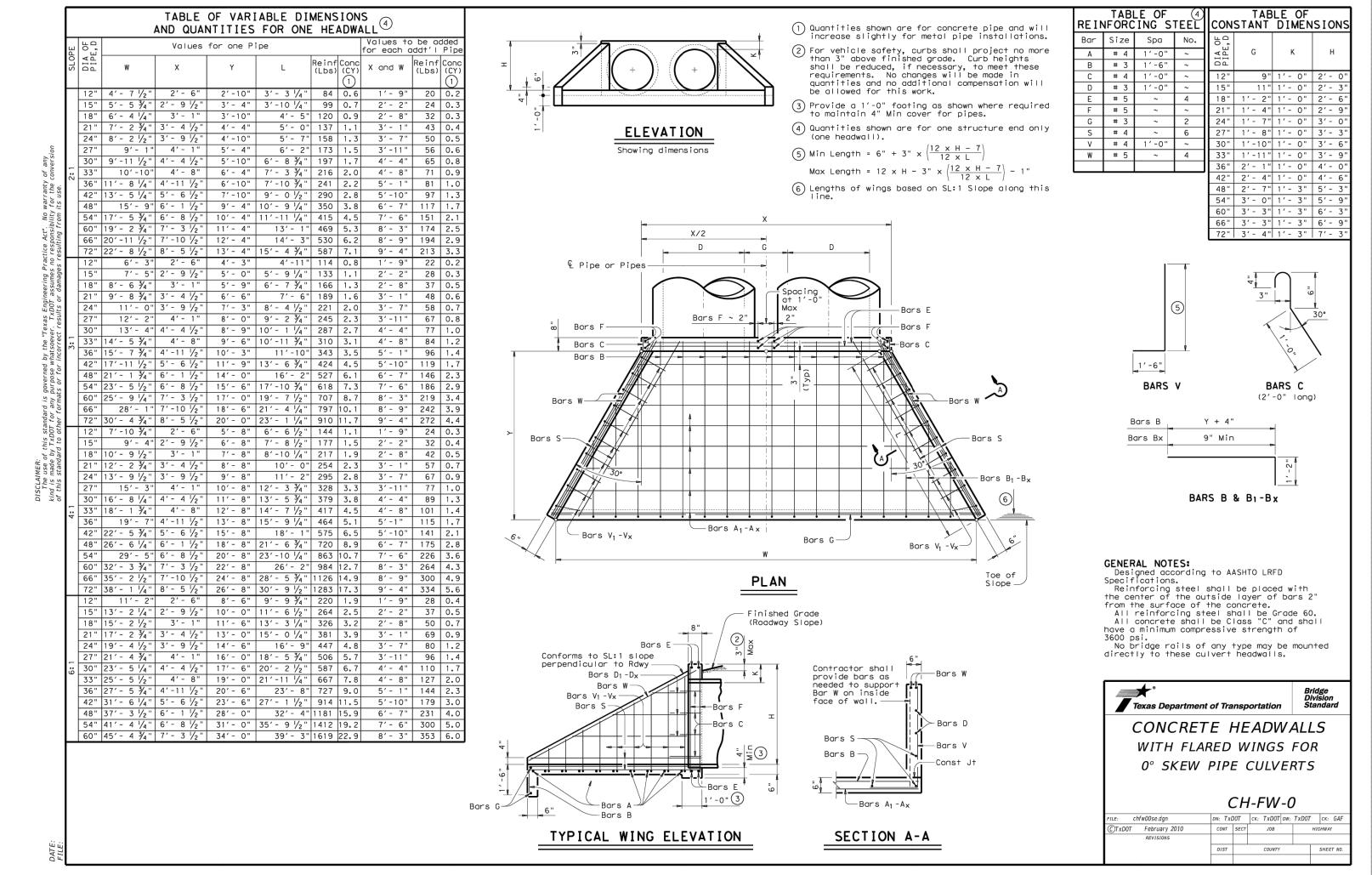
ELEVATION: 808.79'

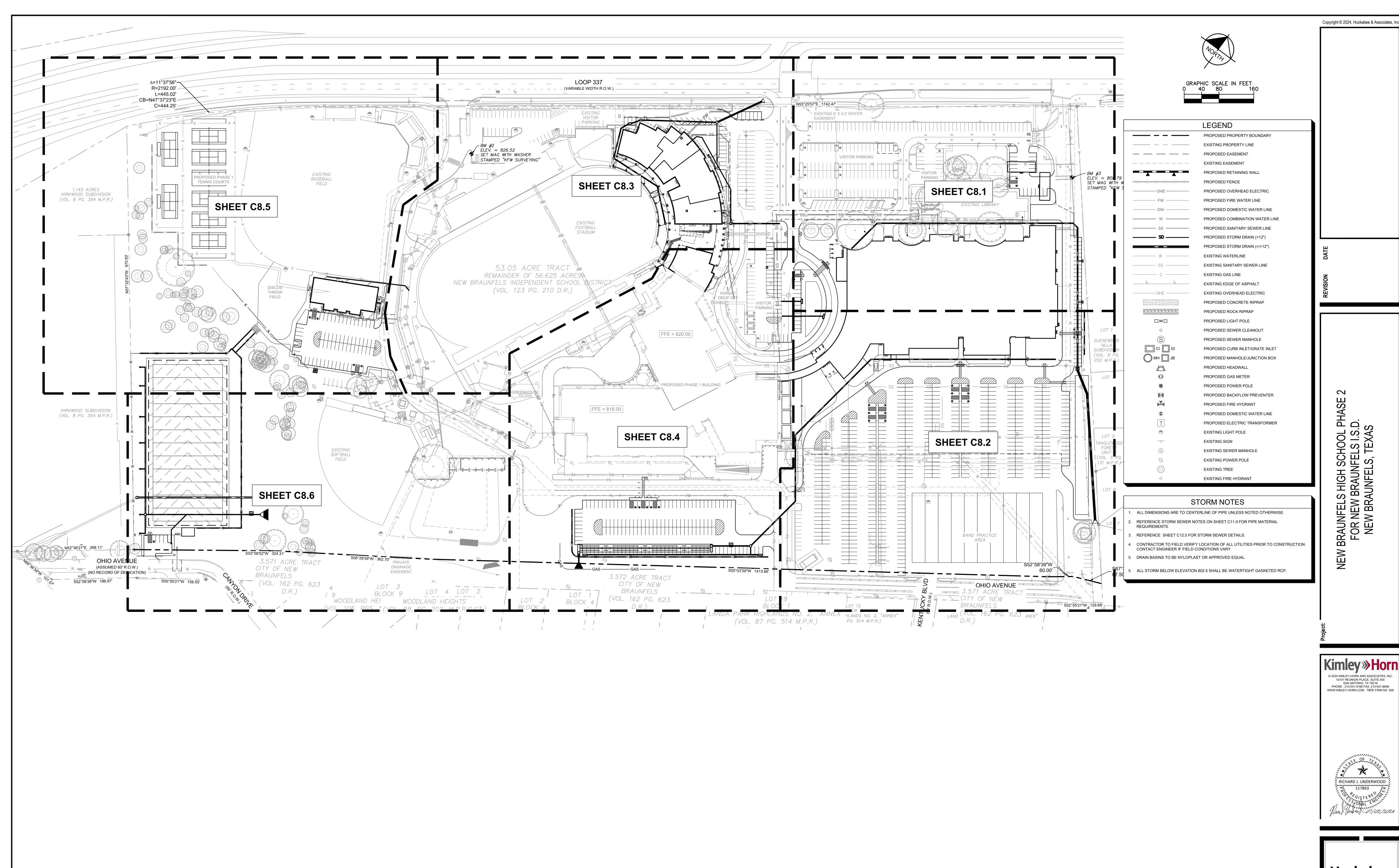
SET MAG WITH WASHER

STAMPED "KFW SURVEYING"

VOLUME

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR  $^{\perp}$  IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING  $_{\downarrow}$  CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF  $_{\downarrow}^{ au}$ ANY DISCREPANCIES ON THE PLANS.





**Huckabee** REFER TO THE SURVEY PREPARED BY KFW ENGINEERS & SURVEYING FOR THE LOCATION OF THESE BENCHMARKS. ACCORDING TO THE SURVEY, THE ELEVATIONS WERE www.huckabee-inc.com 800.687.1229

ESTABLISHED UTILIZING NAVD88 (GEOID 12A) BENCHMARK LIST ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING" ELEVATION: 808.79' SET MAG WITH WASHER STAMPED "KFW SURVEYING"

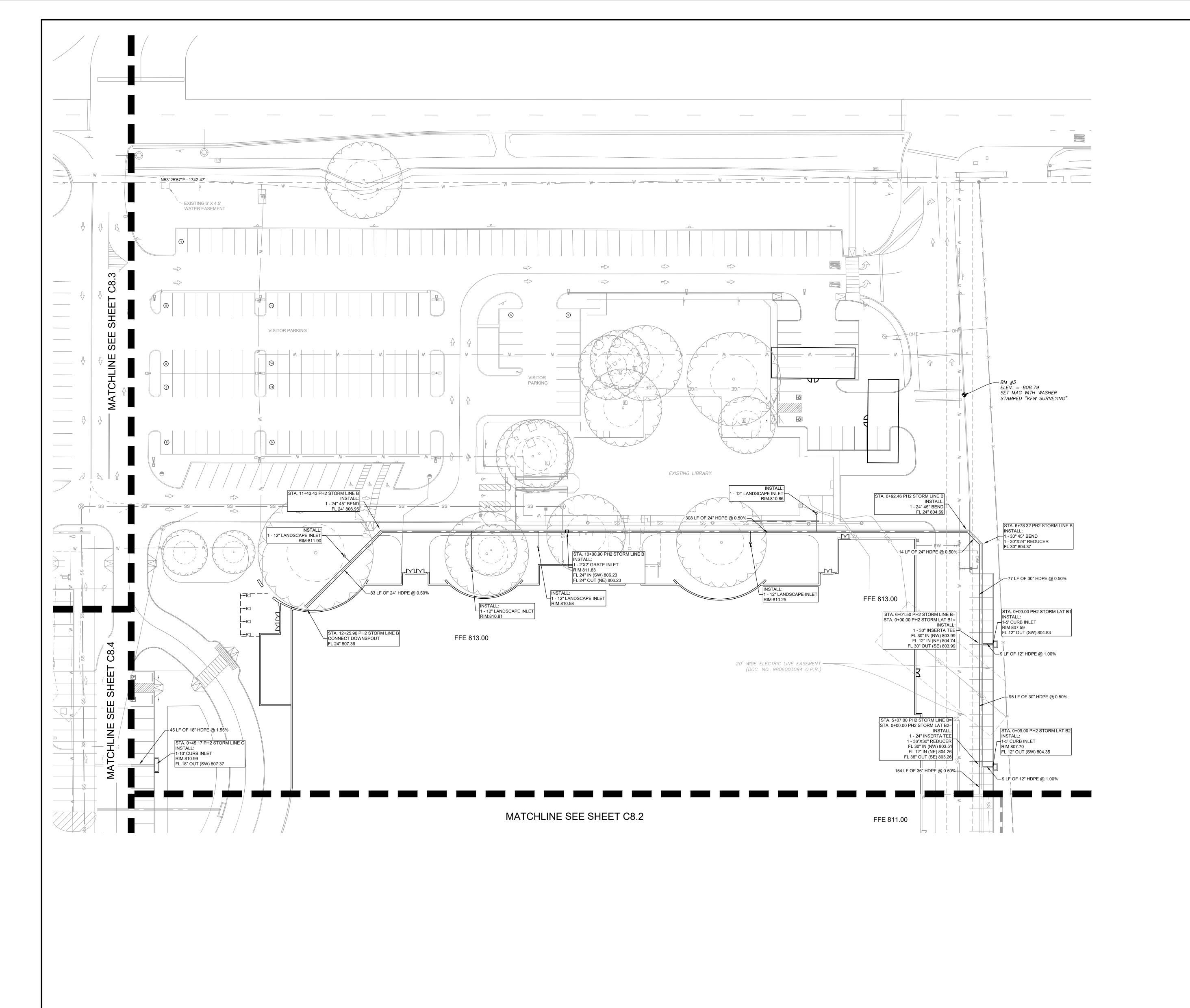
CAUTION!! EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR  $^{\perp}$  IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND

VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING  $_{\downarrow}$  CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF  $_{\downarrow}^{ au}$ ANY DISCREPANCIES ON THE PLANS.

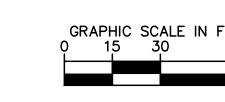
Know what's **below.**Call before you dig.

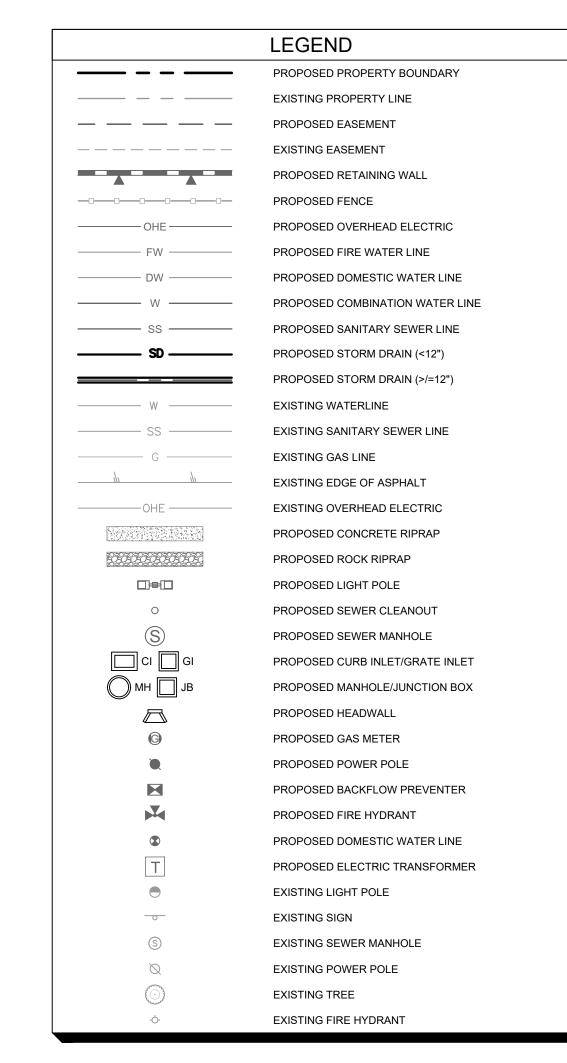
OVERALL STORM DRAINAGE PLAN PACKAGE VOLUME

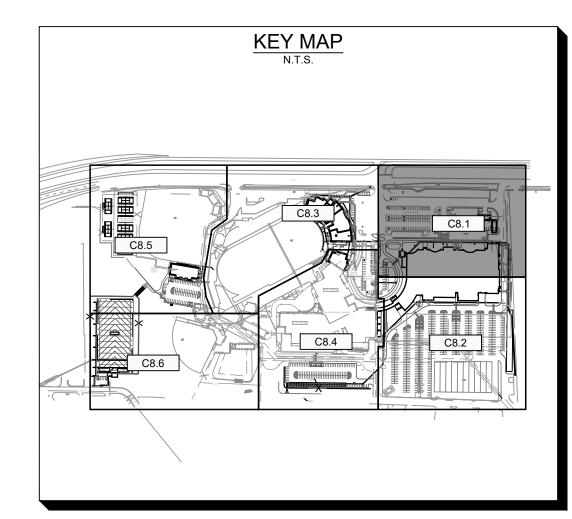




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# STORM NOTES

1. ALL DIMENSIONS ARE TO CENTERLINE OF PIPE UNLESS NOTED OTHERWISE.

REFERENCE STORM SEWER NOTES ON SHEET C11.0 FOR PIPE MATERIAL

- REQUIREMENTS.
- 3. REFERENCE SHEET C12.5 FOR STORM SEWER DETAILS.
- 4. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF FIELD CONDITIONS VARY.
- 5. DRAIN BASINS TO BE NYLOPLAST OR APPROVED EQUAL.
- 6. ALL STORM BELOW ELEVATION 802.5 SHALL BE WATERTIGHT GASKETED RCP.

RICHARD J. UNDERWOOD

Huckabee

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STORM

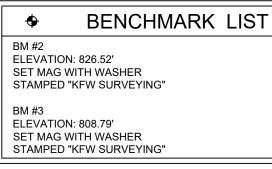
DRAINAGE PLAN

| Kimley » Horr

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V BRAUNFELS HIGH SCHOOL FOR NEW BRAUNFELS I.S. NEW BRAUNFELS, TEXAS

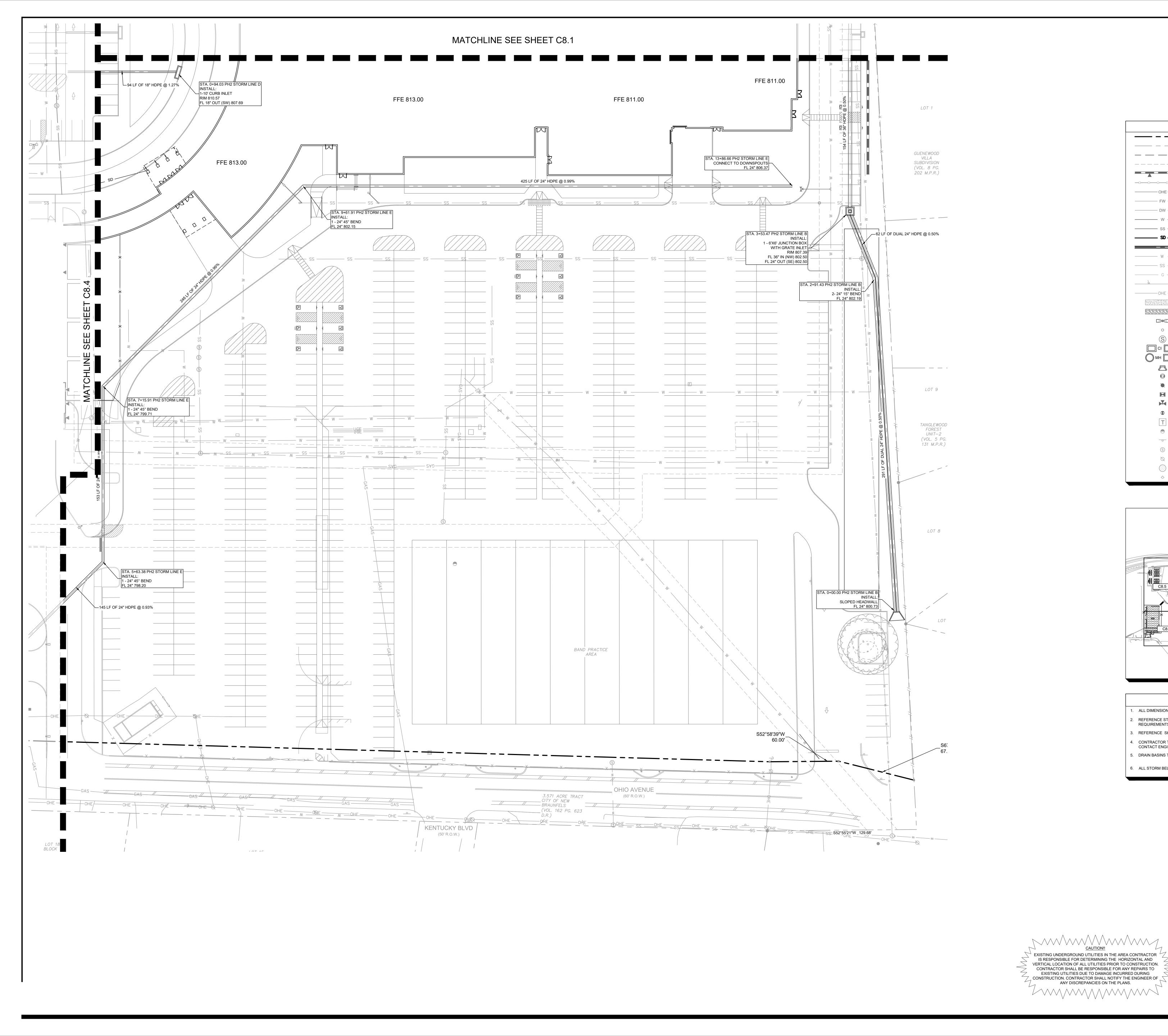
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(SHEET 1 OF 6) PACKAGE Know what's **below**.

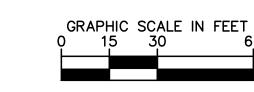
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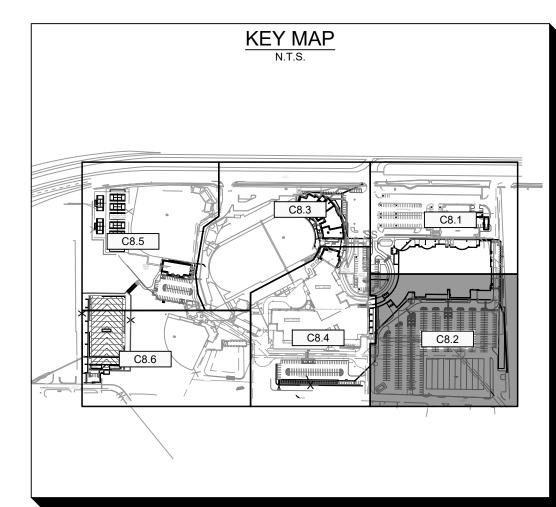




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LEGEND PROPOSED PROPERTY BOUNDARY EXISTING PROPERTY LINE PROPOSED EASEMENT EXISTING EASEMENT PROPOSED RETAINING WALL PROPOSED OVERHEAD ELECTRIC PROPOSED FIRE WATER LINE PROPOSED DOMESTIC WATER LINE PROPOSED COMBINATION WATER LINE PROPOSED SANITARY SEWER LINE PROPOSED STORM DRAIN (<12") PROPOSED STORM DRAIN (>/=12") EXISTING WATERLINE EXISTING SANITARY SEWER LINE EXISTING EDGE OF ASPHALT EXISTING OVERHEAD ELECTRIC PROPOSED CONCRETE RIPRAP PROPOSED ROCK RIPRAP PROPOSED LIGHT POLE PROPOSED SEWER CLEANOUT PROPOSED SEWER MANHOLE PROPOSED CURB INLET/GRATE INLET PROPOSED MANHOLE/JUNCTION BOX PROPOSED HEADWALL PROPOSED GAS METER PROPOSED POWER POLE PROPOSED BACKFLOW PREVENTER PROPOSED FIRE HYDRANT PROPOSED DOMESTIC WATER LINE PROPOSED ELECTRIC TRANSFORMER EXISTING SIGN EXISTING SEWER MANHOLE EXISTING POWER POLE EXISTING TREE



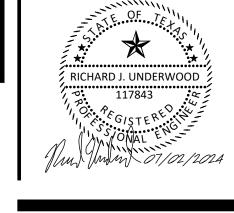
EXISTING FIRE HYDRANT

STORM NOTES

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6. ALL STORM BELOW ELEVATION 802.5 SHALL BE WATERTIGHT GASKETED RCP.



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BENCHMARK LIST

BM #2
ELEVATION: 826.52'
SET MAG WITH WASHER
STAMPED "KFW SURVEYING"

BM #3
ELEVATION: 808.79'
SET MAG WITH WASHER
STAMPED "KFW SURVEYING"



PACKAGE

Job No.
01935-02-02

Drawn By:

STORM

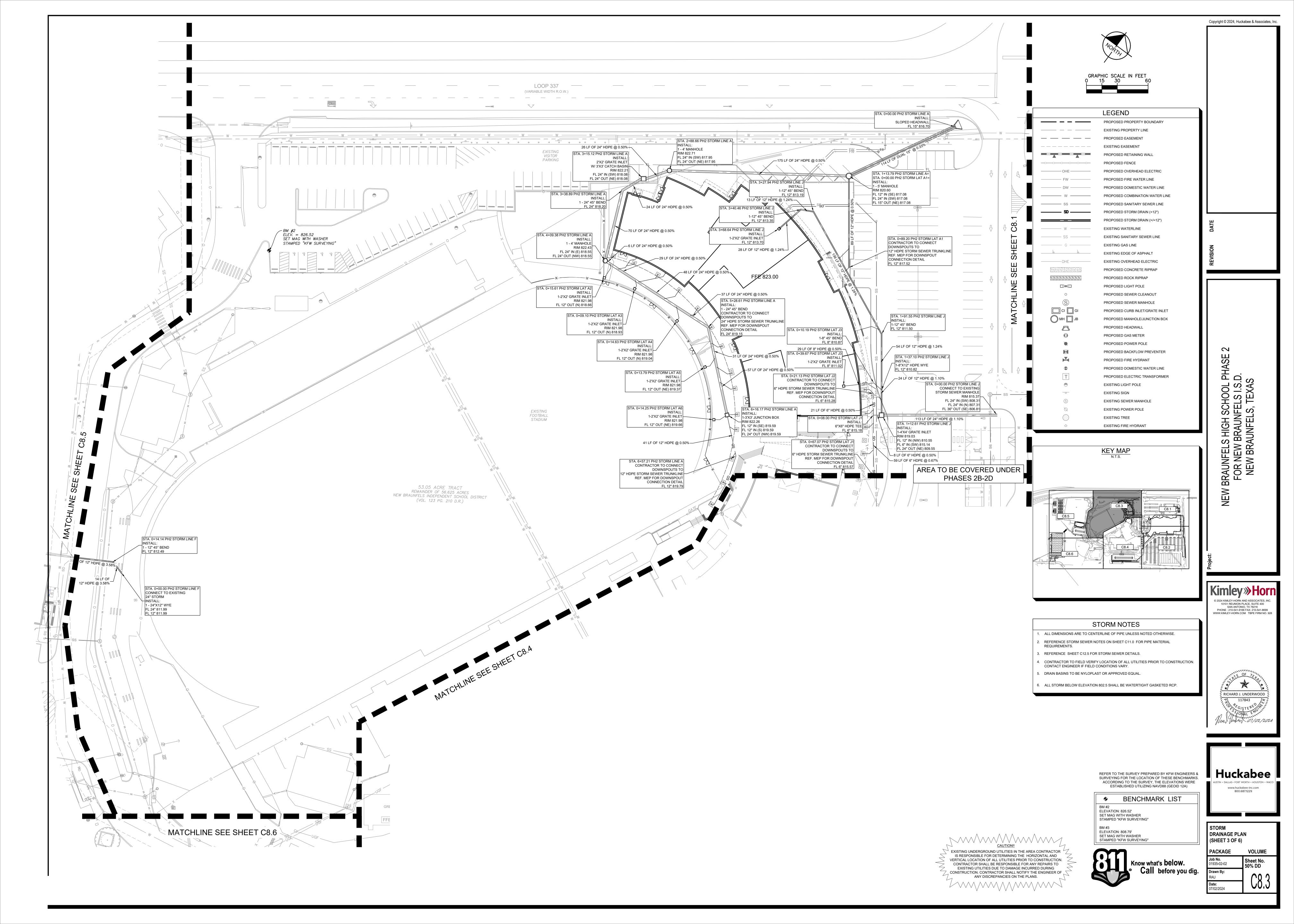
PACKAGE VOLUME

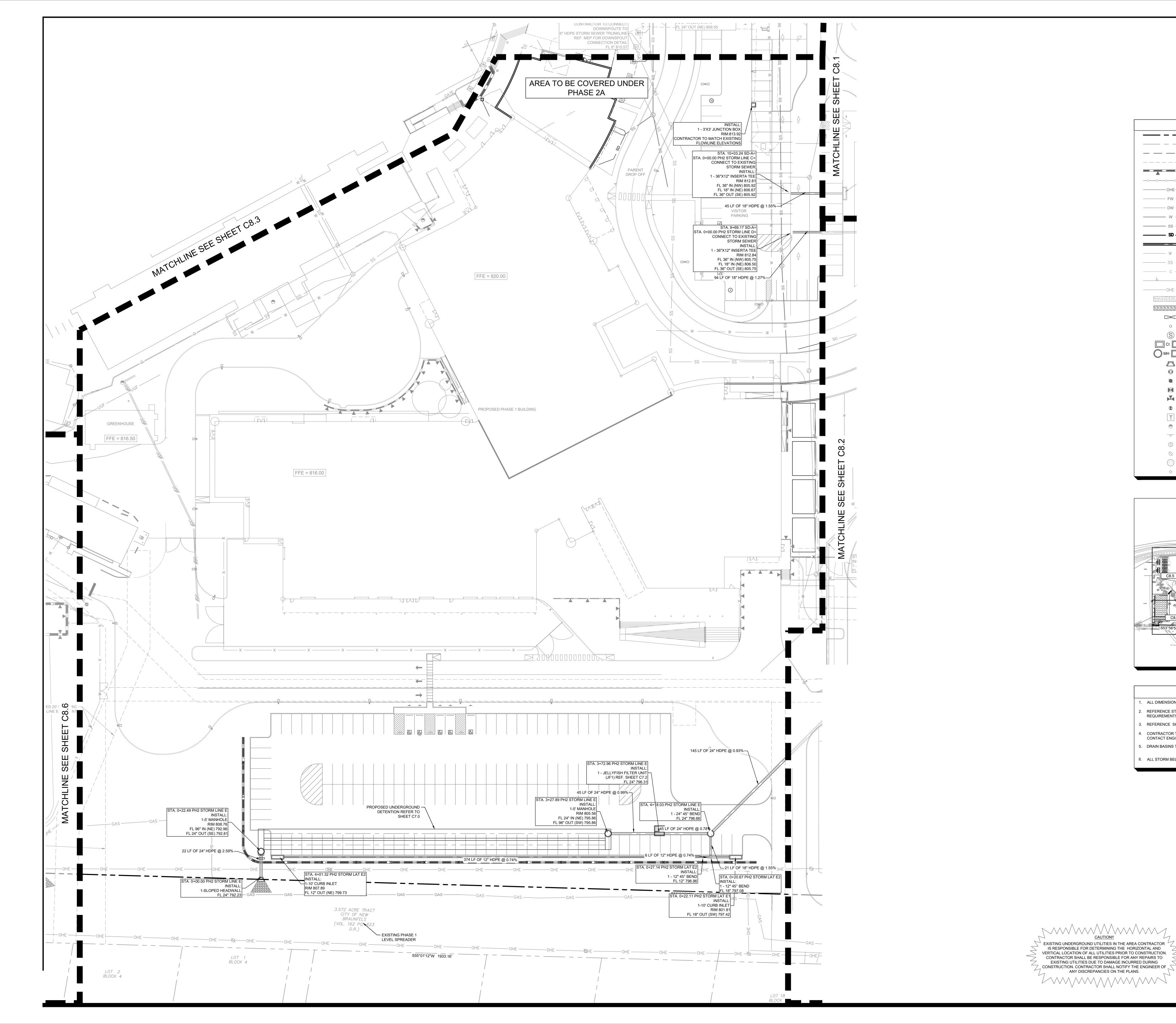
Job No.
01935-02-02

Drawn By:
RAU

Date:
07/03/2024

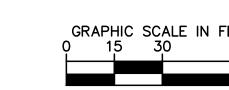
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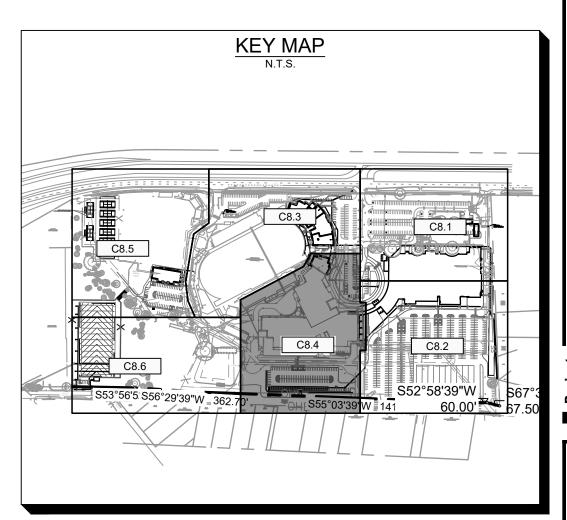




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LEGEND PROPOSED PROPERTY BOUNDARY ——— — EXISTING PROPERTY LINE — — PROPOSED EASEMENT — — — — — EXISTING EASEMENT PROPOSED RETAINING WALL PROPOSED FENCE PROPOSED FIRE WATER LINE PROPOSED DOMESTIC WATER LINE PROPOSED COMBINATION WATER LINE PROPOSED SANITARY SEWER LINE PROPOSED STORM DRAIN (<12") PROPOSED STORM DRAIN (>/=12") EXISTING WATERLINE EXISTING SANITARY SEWER LINE EXISTING GAS LINE EXISTING EDGE OF ASPHALT EXISTING OVERHEAD ELECTRIC PROPOSED CONCRETE RIPRAP PROPOSED ROCK RIPRAP PROPOSED LIGHT POLE PROPOSED SEWER CLEANOUT PROPOSED SEWER MANHOLE PROPOSED CURB INLET/GRATE INLET PROPOSED MANHOLE/JUNCTION BOX PROPOSED HEADWALL PROPOSED GAS METER PROPOSED POWER POLE PROPOSED BACKFLOW PREVENTER PROPOSED FIRE HYDRANT PROPOSED DOMESTIC WATER LINE PROPOSED ELECTRIC TRANSFORMER EXISTING SIGN EXISTING SEWER MANHOLE EXISTING POWER POLE



EXISTING TREE

EXISTING FIRE HYDRANT

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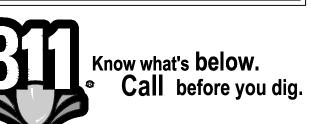
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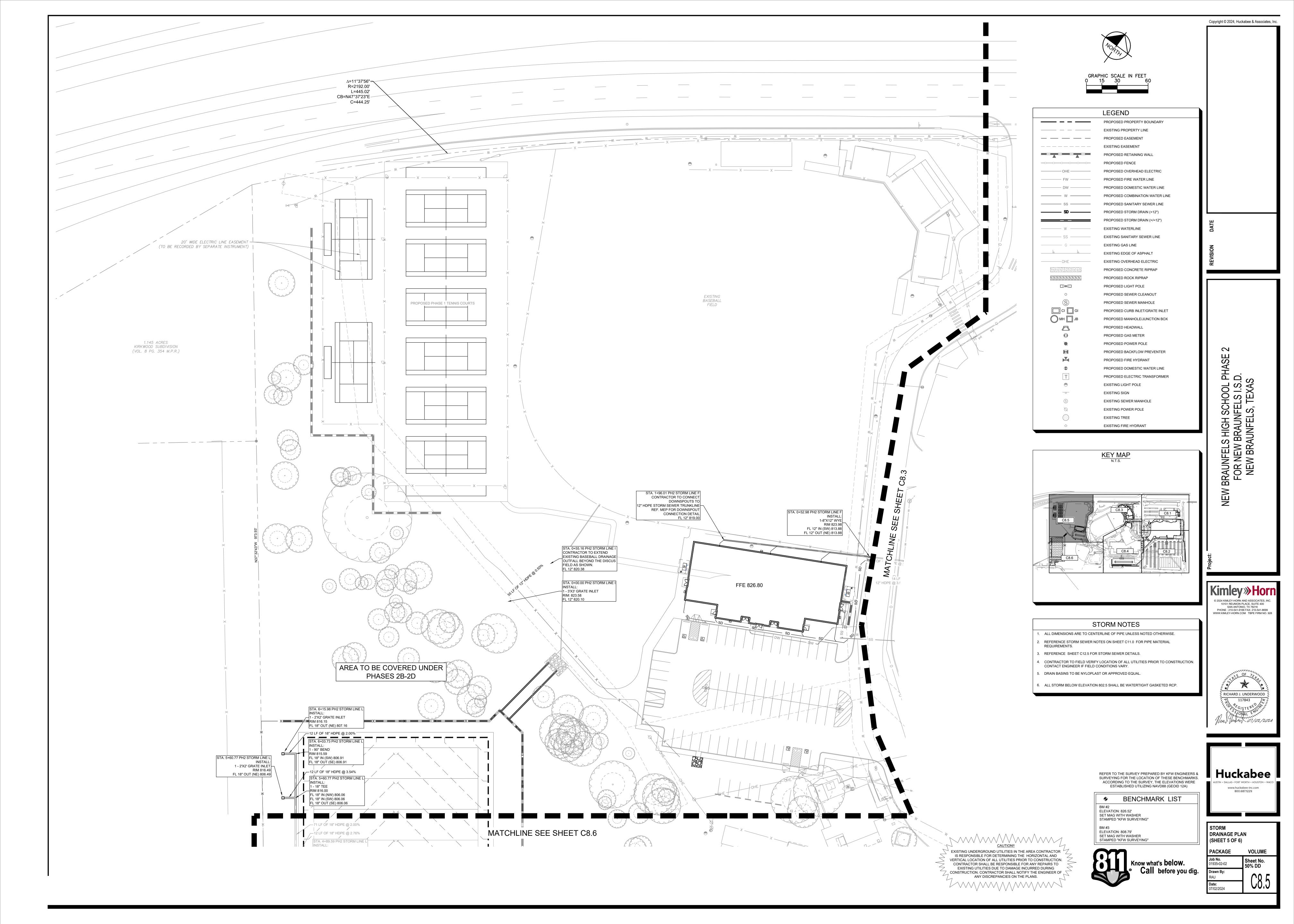
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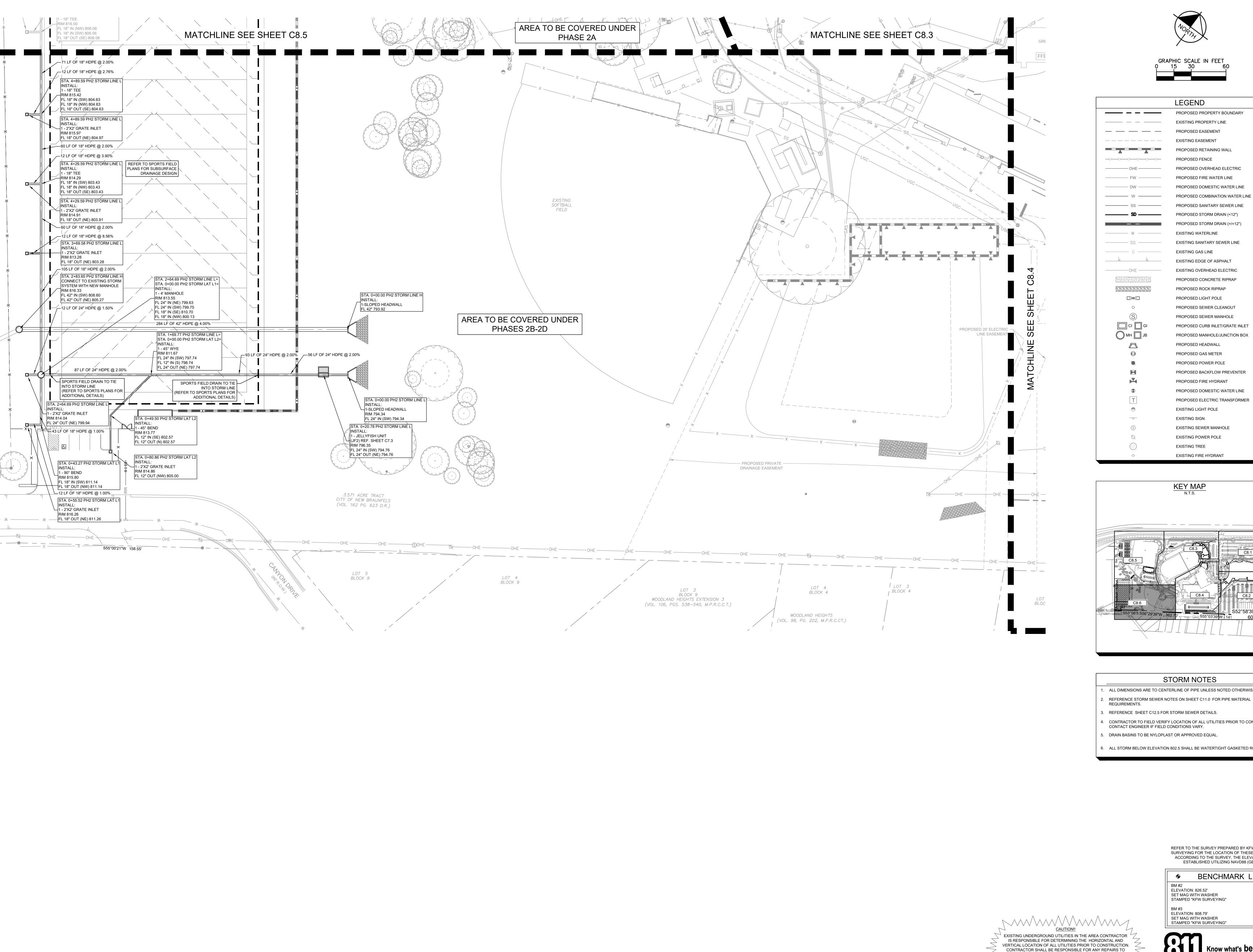
◆ BENCHMARK LIST ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING" BM #3 ELEVATION: 808.79' SET MAG WITH WASHER STAMPED "KFW SURVEYING"



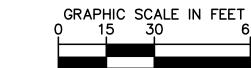
STORM DRAINAGE PLAN (SHEET 4 OF 6) PACKAGE

Sheet No. 50% DD

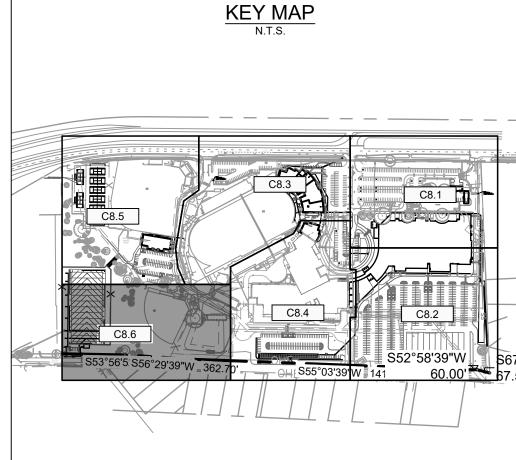








PROPOSED PROPERTY BOUNDARY EXISTING PROPERTY LINE PROPOSED EASEMENT EXISTING EASEMENT PROPOSED RETAINING WALL PROPOSED FENCE ------OHE -------- PROPOSED OVERHEAD ELECTRIC PROPOSED FIRE WATER LINE PROPOSED DOMESTIC WATER LINE PROPOSED COMBINATION WATER LINE PROPOSED SANITARY SEWER LINE PROPOSED STORM DRAIN (<12") PROPOSED STORM DRAIN (>/=12") EXISTING WATERLINE EXISTING SANITARY SEWER LINE EXISTING GAS LINE EXISTING EDGE OF ASPHALT EXISTING OVERHEAD ELECTRIC PROPOSED CONCRETE RIPRAP PROPOSED ROCK RIPRAP PROPOSED LIGHT POLE PROPOSED SEWER CLEANOUT PROPOSED SEWER MANHOLE PROPOSED CURB INLET/GRATE INLET PROPOSED MANHOLE/JUNCTION BOX PROPOSED HEADWALL PROPOSED GAS METER PROPOSED POWER POLE PROPOSED BACKFLOW PREVENTER PROPOSED FIRE HYDRANT PROPOSED DOMESTIC WATER LINE PROPOSED ELECTRIC TRANSFORMER EXISTING SIGN EXISTING SEWER MANHOLE EXISTING POWER POLE EXISTING TREE



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RICHARD J. UNDERWOOD

**Huckabee** 

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STORM

DRAINAGE PLAN

Kimley» Horn

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V BRAUNFELS HIGH SCHOOL FOR NEW BRAUNFELS I.S. NEW BRAUNFELS, TEXAS

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BENCHMARK LIST ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING" ELEVATION: 808.79' SET MAG WITH WASHER STAMPED "KFW SURVEYING"

Know what's **below.**Call before you dig.

(SHEET 6 OF 6)

PACKAGE







FLOW PATH

SHEET FLOW LIMITS

DISCHARGE POINT

FLOW DIRECTION

DA

REVISION

CHOOL PHASE 2 ELS I.S.D.

NEW BRAUNFELS HIGH SCHOOL FOR NEW BRAUNFELS I.S NEW BRAUNFELS, TEXA

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**VOLUME** 

Sheet No. 50% DD

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SET MAG WITH WASHER
STAMPED "KFW SURVEYING"

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ELEVATION: 808.79'
SET MAG WITH WASHER
STAMPED "KFW SURVEYING"

ELEVATION: 808.79'
SET MAG WITH WASHER
STAMPED "KFW SURVEYING"

PACKAGE

Job No.
01935-02-02

Drawn By:

Date:

DRAINAGE AREA
MAP

PACKAGE

V

Dob No.
01935-02-02

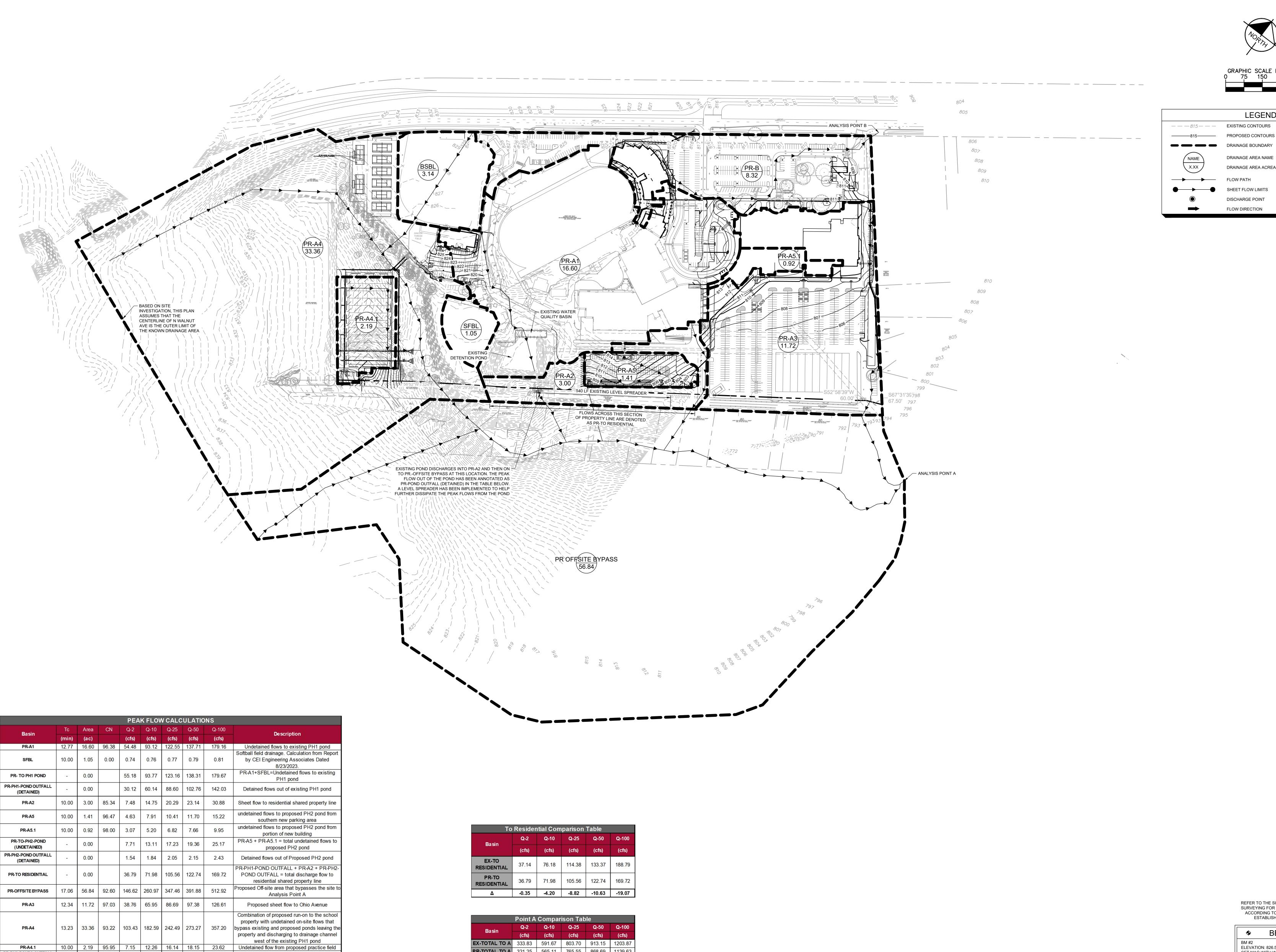
Drawn By:

PEAK FLOW CALCULATIONS									
Basin	Тс	Area	CN	Q-2	Q-10	Q-25	Q-50	Q-100	Description
Баяп	(min)	(ac)		(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	Description
EX-A1	12.77	16.78	92.48	51.09	91.05	121.27	136.79	179.07	Undetained flows to existing pond
EX-A1.1	10.00	0.74	98.00	2.47	4.18	5.49	6.16	8.00	Undetained flows to existing pond from northern new parking area
EX-TO POND (UNDETAINED)	-	-		53.56	95.23	126.76	142.95	187.08	EX-A1 + EX-A1.1 = total undetained flows to existing pond
EX-POND OUTFALL (DETAINED)	-	0.0		29.5	61.3	91.8	106.7	151.6	Detained flows out of existing pond
EX-A2	10.0	4.4	83.6	10.4	21.0	29.2	33.4	44.8	Sheet flow to residential shared property line
EX-TO RESIDENTIAL	-	0.0		37.1	76.2	114.4	133.4	188.8	EX-POND OUTFALL + EX-A2 = total discharge flow to residential shared property line
EX-OFFSITE BYPASS	17.1	56.8	92.6	146.6	261.0	347.5	391.9	512.9	Existing Off-site area that bypasses the site to Analysis Point A
EX-A3	12.3	12.1	97.8	40.3	68.3	89.6	100.6	130.7	Existing sheet flow to Ohio Avenue
EX-A4	13.2	38.7	92.6	118.3	210.3	279.9	315.7	413.1	Combination of existing run-on to the school property with undetained on-site flows that bypass existing pond leaving the property and discharging to drainage channel west of the existing pond
EX-POINT A	-	0.0		333.8	591.7	803.7	913.2	1203.9	EX-TO RESIDENTIAL + EX-OFFSITE BYPASS + EX-A3 + EX-A4 = Total Existing Flow to Analysis Point A
EX-B	10.00	9.05	96.45	29.70	50.77	66.81	75.08	97.67	Existing peak flow to Point B

NOTE: THE PEAK FLOWS SHOWN CORRESPOND TO THE OUTPUTS FROM HYDRAFLOW HYDROGRAPHS FROM THE ROUTED MODEL AND CORRESPOND WITH THE TIME OF CONCENTRATION OF THE LARGER DRAINAGE AREA.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR
IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND
VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO
EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING
CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF
ANY DISCREPANCIES ON THE PLANS.



NOTE: THE PEAK FLOWS SHOWN CORRESPOND TO THE OUTPUTS FROM HYDRAFLOW HYDROGRAPHS FROM THE ROUTED MODEL AND CORRESPOND WITH THE TIME OF CONCENTRATION OF THE LARGER

Detained flows out of Proposed PH2 pond 2

Baseball field drainage. Calculation from Report

by CEI Engineering Associates Dated 8/23/2023.

PR-TO RESIDENTIAL + PR-OFFSITE BYPASS + PR-TOTAL A3 + PR-PH2-POND2 OUTFALL

+ PR-A4 + BSBL = Total Proposed Flow to

Analysis Point A

PR-PH2-POND2 OUTFALL

(DETAINED)

PR-TOTAL TO A

DRAINAGE AREA.

3.16 8.23 10.77 11.75 13.92

321.25 | 565.11 | 765.55 | 868.69 | 1139.63

1.76 1.90

0.00

- 0.00

2.01 2.11 2.21

10.00 8.32 95.06 26.76 46.28 61.10 68.73 89.56 peak flow from northern parking to Point B

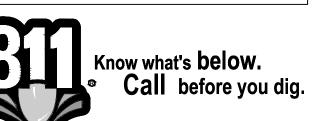
Point A Comparison Table							
Basin	Q-2	Q-10	Q-25	Q-50	Q-100		
Dasiii	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)		
EX-TOTAL TO A	333.83	591.67	803.70	913.15	1203.87		
PR-TOTAL TO A	321.25	565.11	765.55	868.69	1139.63		
Δ	-12.58	-26.56	-38.15	-44.46	-64.24		

	Point B Comparison Table						
Basin	Q-2	Q-10	Q-25	<b>Q</b> -50	Q-100		
Dasiii	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)		
EX-B	29.74	50.80	66.83	75.10	97.69		
PR-TOTAL TO B	26.76	46.28	61.10	68.73	89.56		
Δ	-2.98	-4.52	-5.73	-6.37	-8.13		

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING  $_{
m J}$  Construction. Contractor shall notify the engineer of  $_{
m L}$ ANY DISCREPANCIES ON THE PLANS.

REFER TO THE SURVEY PREPARED BY KFW ENGINEERS & SURVEYING FOR THE LOCATION OF THESE BENCHMARKS. ACCORDING TO THE SURVEY, THE ELEVATIONS WERE ESTABLISHED UTILIZING NAVD88 (GEOID 12A)

BENCHMARK LIST BM #2 ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING" ELEVATION: 808.79' SET MAG WITH WASHER STAMPED "KFW SURVEYING"



PHASE II DRAINAGE AREA **PACKAGE** VOLUME **Job No.** 01935-02-02 Sheet No. 50% DD

© 2024 KIMLEY-HORN AND ASSOCIATES, INC. 10101 REUNION PLACE, SUITE 400 SAN ANTONIO, TX 78216 PHONE: 210-541-9166 FAX: 210-541-8699 WWW.KIMLEY-HORN.COM TBPE FIRM NO. 928

RICHARD J. UNDERWOOD

**Huckabee** 

www.huckabee-inc.com 800.687.1229

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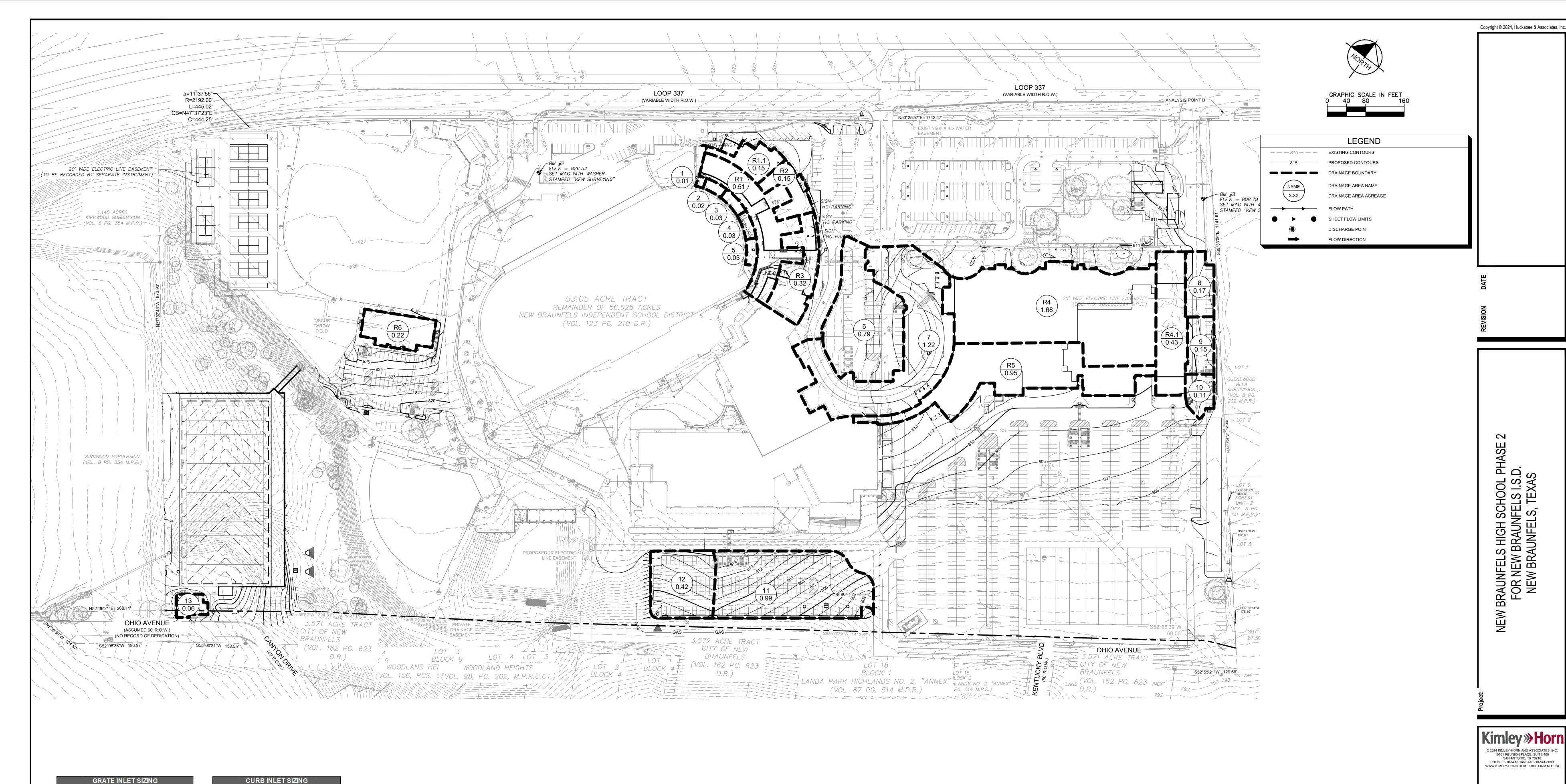
LEGEND

DRAINAGE BOUNDARY

DRAINAGE AREA NAME

SHEET FLOW LIMITS DISCHARGE POINT FLOW DIRECTION

DRAINAGE AREA ACREAGE



	OITA	E INCE I CIZINO		
INLET NAME	<b>Q</b> 25	MINIMUM OPEN AREA REQUIRED	GRATE SIZE	
	(CFS)	(SQ. FT.)	(FT.)	
1	0.08	0.0	2x2	
2	0.16	0.1	2x2	
3	0.24	0.1	2x2	
4	0.24	0.1	2x2	
5	0.24	0.1	2x2	
10	0.88	0.4	2x2	

MINIMUM OPEN	NIMUM OPEN GRATE SIZE		Basin	Q25	L <sub>REQ</sub>	L <sub>PROVIDED</sub>	Q <sub>ca</sub>
REA REQUIRED	A REQUIRED GRATE SIZE		Busin	(CFS)	(FT.)	(FT.)	(C
(SQ. FT.)	(FT.)		6	5.79	5.31	10.00	10
0.0	2x2		7	8.28	7.59	10.00	10
			8	1.36	1.25	5.00	5.
0.1	2x2		9	1.2	1.10	5.00	5.
0.1	2x2		11	7.49	6.86	10.00	10
0.1	2x2					10.00	
0.1	2x2		12	3.18	2.91		10
0.4	2v 2		13	0.48	0.44	10.00	10

Huckabee REFER TO THE SURVEY PREPARED BY KFW ENGINEERS & SURVEYING FOR THE LOCATION OF THESE BENCHMARKS. ACCORDING TO THE SURVEY, THE ELEVATIONS WERE ESTABLISHED UTILIZING NAVD88 (GEOID 12A) BENCHMARK LIST

ELEVATION: 826.52' SET MAG WITH WASHER STAMPED "KFW SURVEYING" ELEVATION: 808.79' SET MAG WITH WASHER STAMPED "KFW SURVEYING"

CAUTION!! EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND

VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING  $_{
m J}$  Construction. Contractor shall notify the engineer of  $_{
m L}$ ANY DISCREPANCIES ON THE PLANS.

Know what's below.

Call before you dig.

AREA MAP PACKAGE VOLUME

www.huckabee-inc.com 800.687.1229

INLET DRAINAGE

#### **Agent Authorization Form**

For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

1	Paul McLarty	
	Print Name	
	CFO	10
	Title - Owner/President/Other	
of New Brau	uses ISD	¥
	Corporation/Partnership/Entity Name	
have authorized	Richard Underwood, P.E.	
	Print Name of Agent/Engineer	
of Kimley-Horn & A	ssociates	
	Print Name of Firm	

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

#### I also understand that:

- 1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
- 2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
- Application fees are due and payable at the time the application is submitted. The
  application fee must be sent to the TCEQ cashier or to the appropriate regional office.
  The application will not be considered until the correct fee is received by the
  commission.
- 4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.



#### SIGNATURE PAGE:

Applicant's Signature

THE STATE OF JKON §

County of Mal §

BEFORE ME, the undersigned authority, on this day personally appeared known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this Hay of Hay Notary ID # 131245516 Brunds Garrett
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: Blokes

## **Application Fee Form**

#### **Texas Commission on Environmental Quality**

Name of Proposed Regulated Entity: Additions & Renovations to New Braunfels Highschool for

New Braunfels I.S.D. Phase 2 Regulated Entity Location: 2551 TX 337 Loop New Braunfels Tx Name of Customer: New Braunfels ISD Contact Person: Joseph Mansfield Phone: 840-643-5700 Customer Reference Number (if issued):CN 600397814 Regulated Entity Reference Number (if issued):RN 102402526 **Austin Regional Office (3373)** Hays Travis Williamson San Antonio Regional Office (3362) Medina Bexar Uvalde Comal Comal Kinney Application fees must be paid by check, certified check, or money order, payable to the **Texas** Commission on Environmental Quality. Your canceled check will serve as your receipt. This form must be submitted with your fee payment. This payment is being submitted to: Austin Regional Office San Antonio Regional Office Mailed to: TCEQ - Cashier Overnight Delivery to: TCEQ - Cashier **Revenues Section** 12100 Park 35 Circle Mail Code 214 Building A, 3rd Floor P.O. Box 13088 Austin, TX 78753 Austin, TX 78711-3088 (512)239-0357

#### Site Location (Check All That Apply):

Recharge 7one

Mechange Zone	Continuating Zone		IOII ZOIIE
Type of	Plan	Size	Fee Due
Water Pollution Abatement P	lan, Contributing Zone		
Plan: One Single Family Resid	ential Dwelling	Acres	\$
Water Pollution Abatement P	lan, Contributing Zone		
Plan: Multiple Single Family R	esidential and Parks	Acres	\$
Water Pollution Abatement P	lan, Contributing Zone		
Plan: Non-residential		56.0 Acres	\$ 8,000
Sewage Collection System		L.F.	\$
Lift Stations without sewer lir	nes	Acres	\$
Underground or Abovegroun	d Storage Tank Facility	Tanks	\$
Piping System(s)(only)		Each	\$
Exception		Each	\$
Extension of Time		Each	\$

Contributing Zone

Transition Zone

Signature: Mulliman Date: 7-1-2024

## **Application Fee Schedule**

**Texas Commission on Environmental Quality** 

Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

#### Water Pollution Abatement Plans and Modifications

**Contributing Zone Plans and Modifications** 

	Project Area in	
Project	Acres	Fee
One Single Family Residential Dwelling	< 5	\$650
Multiple Single Family Residential and Parks	< 5	\$1,500
	5 < 10	\$3,000
	10 < 40	\$4,000
	40 < 100	\$6,500
	100 < 500	\$8,000
	≥ 500	\$10,000
Non-residential (Commercial, industrial,	< 1	\$3,000
institutional, multi-family residential, schools, and	1 < 5	\$4,000
other sites where regulated activities will occur)	5 < 10	\$5,000
	10 < 40	\$6,500
	40 < 100	\$8,000
	≥ 100	\$10,000

Organized Sewage Collection Systems and Modifications

Project	Cost per Linear Foot	Minimum Fee- Maximum Fee
Sewage Collection Systems	\$0.50	\$650 - \$6,500

# Underground and Aboveground Storage Tank System Facility Plans and Modifications

Project	Cost per Tank or Piping System	Minimum Fee- Maximum Fee
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

**Exception Requests** 

Project	Fee
Exception Request	\$500

Extension of Time Requests

Project	Fee
Extension of Time Request	\$150



**TCEQ Core Data Form** 

TCEQ Use Only

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

### **SECTION I: General Information**

1. Reason for Submission (If other is checked please describe in space provided.)											
New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)											
Renewal (Core Data Form should be submitted with the renewal form)  Other  C. Customer Reference Number (if issued)  Follow this link to search  3. Regulated Entity Reference Number (if issued)											
2. Customer	Reference	e Number (if iss		I Ollow tillo lillik to obdi oli			3. Regulated Entity Reference Number (if issued)				
CN 6003	97814	_	<u>fo</u>	or CN or RN Central Re							
SECTION II: Customer Information											
4. General C	ustomer Ir	nformation	5. Effective Da	ate for Cus	stomer	Inforn	natio	n Updat	tes (mm/dd/yyyy)		
<ul><li>☑ New Customer</li><li>☐ Update to Customer Information</li><li>☐ Change in Regulated Entity Ownership</li><li>☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)</li></ul>											
The Customer Name submitted here may be updated automatically based on what is current and active with the											
Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).											
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)  If new Customer, enter previous Customer below:										er below:	
NBISD											
7. TX SOS/CPA Filing Number 0153150601			8. TX State Tax ID (11 digits) 17429237443				g	9. Feder	ral Tax ID (9 digits)	10. DUNS Number (if applicable)	
11. Type of Customer: Corporation			ion	☐ Individual				Pa	artnership: 🗌 Genera		
		County  Federal	☐ State ☐ Other	Sole Proprietorship Other:							
12. Number	of Employ	ees		<b>I</b>				13. Inde	pendently Owned	and Opera	ted?
□ 0-20 □ 21-100 □ 101-250 □ 251-500 □ 501 and higher □ Yes □ No  14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following											
Owner	1 1010 (1 10	Operat			wner &			JIII. 1 10 a	one one on the	Ollowing	
☐Occupatio	nal License		onsible Party			•		pplicant	Other:		
-	1117 N	Academy A	Ave								
15. Mailing											
Address:	City	New Braun	fels	State	TX		ZIP	781320		ZIP + 4	
16. Country	Mailing Inf	ormation (if outsi	de USA)			17. E-	Mail	Addres	SS (if applicable)		
-	<b>-</b>		,								
18. Telephor	ne Number		19	19. Extension or Code				20. Fax Number (if applicable)			
( )	( ) -							( ) -			
ECTION	III: Re	egulated En	ntity Inform	 nation							
		-			'y" is se	lected	belov	w this fo	rm should be acco	mpanied by	a permit application)
21. General Regulated Entity Information (If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)  ☐ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information											
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal											
of organizational endings such as Inc, LP, or LLC).											
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)											
Additions	and Ren	ovations to	New Braunfe	els Highs	schoo	1					

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23. Street Address of the Regulated Entity:	2551 Tx 337 Loop												
(No PO Boxes)	City New Braunfels		State	TX	ZIP	78130		ZIP + 4					
24. County	Comal	1	<u> </u>	1		<b>.</b>		1	•				
	E	nter Physical L	ocation Descripti	ion if no str	eet ac	ddress is p	rovided.						
25. Description to Physical Location:													
26. Nearest City			State			Nearest ZIP Code							
27. Latitude (N) In Decin			0	28. L	28. Longitude (			-98.1535	-98.153540				
Degrees	Minutes		Seconds	Degree				_	Seconds				
29	43		4.296		98			9	12.744				
29. Primary SIC Code (4	Code (4 digits)						Secondary NAICS Code 6 digits)						
8211		9903		611	1110	110							
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)													
High School													
24 Mailing			255	1 Loop 3	37								
34. Mailing Address:													
Address.	City	TX	TX <b>ZIP</b> 78		8130	ZIP + 4	8502						
35. E-Mail Address:	sd.org			,			•						
36. Telepho	ne Numbe	r	37. Extension	on or Code	or Code 38. Fax Number (if applicable)								
(840)643-5700						( ) -							
9. TCEQ Programs and ID				rmits/registra	tion nu	ımbers that v	vill be affected	by the updates	submitted on this				
☐ Dam Safety	☐ Distric			iifer	☐ Em		Emissions Inventory Air		☐ Industrial Hazardous Waste				
☐ Municipal Solid Waste	☐ New Source Review Air		OSSF		Petroleum		orage Tank	PWS					
Sludge	☐ Storm	Water	☐ Title V Air		Tires			Used Oil					
□ Valuntary Cleanus	☐ Waste	Motor	□ Wastewater /	Wastewater Agriculture		Matar Diabta		Other					
☐ Voluntary Cleanup	waste	vvalei	wastewater A	Agriculture	☐ Water Rights			Other:					
SECTION IV: Pre	parer Iı	nformation											
40. Richard Und	erwood		41. Title:	Title: Project Engineer									
42. Telephone Number	45. E-Mail Address												
(210) 541-9166	richard.underwood@kimley-horn.com												
SECTION V: Aut	horized	Signature	,										
<b>6.</b> By my signature below, ignature authority to submit dentified in field 39.	I certify, to	the best of my k											
Company: Kimle	y-Horn			Job Title	e:	Project Engineer							

TCEQ-10400 (02/21) Page 2 of 3

(210) 541-9166

Phone:

Richard Underwood

Name (In Print):

Signature: Date: 04/01/2024

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